



THE COASTSIDE COMMUNICATOR

VOL. 54

No. 5 MAY 2022

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

We are back to having in-person monthly meetings! Our meeting on Wednesday April 13th was at the Firehouse on Linda Mar Boulevard and it was great to see those who could make it. Paul AI6BB also ran a Zoom session, so a few members could join remotely.

Dave KF6TWW gave a report of the Electronics Flea Market in Sunnyvale. It was packed and you had to get there early to get a good spot. The event ran from 7am to noon. Unfortunately, as soon as it began, it ended. Apparently the flea market lost access to Sunnyvale Library location and the remaining events for 2022 have been canceled. What a shame - I hope that they can find an alternative.

Dave has also gone ahead and reserved the front room of Linda Mar Round Table Pizza for the CARC Pizza Night meeting on July 13 2021. Reservation is for the front room from 6:30-9pm. I hope to see you there.

We also had a brief report from Jon N6SJM. Our application to the GGNRA for the Sweeney Ridge (with an alternate of Milagra Ridge) is under review and we hope to get a favorable response soon.

Have fun on the air and I hope to see you in person at our next meeting on May 11th where we will continue our preparations for Field Day.

73, Steve KN6ORM
Club President

CARC APRIL 13, 2022, MEETING MINUTES

Call to Order

The April 13, 2022, meeting was called to order at 7:37pm by: President Steve Austin-KN6ORM, at the Linda Mar Fire Station, Linda Mar Blvd., Linda Mar.

Self-introductions

Introductions by members in attendance.

Minutes

Motion made by Dave-KF6TWW and seconded by Walt-KG6EDY to approve the March minutes as posted in *The Coastside Communicator*. Motion passed by unanimous vote of the membership present.

TREASURER'S REPORT

Funds

Co-Treasurer - AI6BB reported that the balances in the club's accounts had not changed from the last report. The balances in the club's accounts as of March 30 were as follows:

General Fund	5,560.20
Repeater Fund	1,882.00
APRS/Digipeater	1,455.00
EOC/Public Service	13,530.00
Grand Total	22,427.20

Membership

Since last meeting there have not been any new applications. Still working on getting correct membership totals. The Secretary incorrectly calculated the total CARC Members that are also ARRL members. ARRL website was under

construction and once complete will continue tallying.

Bills needing approval

\$300.00 to reimburse co-treasurer for payment to ARRL for liability insurance. Covered through May 31, 2023. Motion made by Tom-KJ6OGL and seconded by Steve-KN6ORM to reimburse Paul \$300.00 for out-of-pocket payment of Club insurance. Motion passed by unanimous vote of the membership present.

Correspondence

Paul-AI6BB received an email from Michelle Bass and her son Noah thanking Paul and the CARC Website for helping Noah in pursuing his Radio Badge with the Boy Scouts. *“My son Noah and I just wanted to get in touch because you’ve been such an enormous help while he’s been working towards earning his “Radio” merit badge for Boy Scouts! Your page gave Noah some really great information and sites to learn from! Noah had the wonderful idea of passing another resource to you for information on Morse code since it was one of the requirements for this badge. It is all about the telegraph and deciphering Morse code. Would you mind adding Noah’s suggestion to your page if it is not too much trouble? I would absolutely love to show him that his suggestion was up and running to help others. I believe he would be so proud and excited to know he has made a positive contribution... Plus I am sure he would be beyond thrilled to show his troop during their next video call.”* (Edited) Noah and Michelle Bass. Paul added the suggested link to the CARC website. Thank you, Noah and Michelle.

COMMITTEE REPORTS

Current Repeater

1. Current status of WA6TOW repeater: Still seems to be working ok. There is some coronal activity right now and can expect interference in the next few days.
2. APRS - Working
3. Emergency Services – No Report

Replacement Repeater

1. Update on Replacement Repeater: Dave & Walt to make a concerted effort to get together and pull the repeater out of storage and store in Walt’s garage. Should have something to report by the next meeting.

Still need someone to volunteer a location to setup and test repeater.

NEWSLETTER – Published for April.

WEBSITE – Working. Paul checked the site and fixed a couple of links.

UNFINISHED BUSINESS

- A. CARC Events Calendar – Continuing to keep open for probable future events.
- B. 20-meter Antenna – Ongoing - Frank-N6FG to schedule time with Gary-JI6HIG.
- C. Field Day location and point person –Jon submitted application to GGNRA for Sweeney Ridge and the Milagra site. Jon is waiting to hear from the GGNRA on the application and also to receive the certificate from the insurance to submit to GGNRA.

NEW BUSINESS

- A. Fog Fest – Will be back this year on the last full weekend in September. Frank to check and submit required application(s) for CARC to handle radio ops.
- B. Paul, Jon, and Tom are working on a project of tallying members of the Club (with dues paid/not paid that are also members of the ARRL. Steve will draft a report at the end of the year to the ARRL of our activities.
- C. Last Saturday was the first time in 2 years that the ham flea market in Sunnyvale. Held on the second Saturday of each month @ 7am until noon.
- D. Dave-KF6TWW to stop by Round Table and make reservations for July 13th for pizza meeting.
- E. Steve-KN6ORM asked if the Club is interested in getting speakers to come to one of our meetings and do a presentation. If has something or someone in mind, let the Club know and we’ll make arrangements.
- F. Meeting had Closed and discussion started on changes to the CARC Wednesday Night Net script. Dave-KF6TWW stated that the meeting had already Closed, and we’d have to reopen or schedule for next meeting to continue discussion. Decision to add to May meeting agenda.

Adjournment

Motion made by Dave-KF6TWW and seconded by Walt-KG6EDY to adjourn the meeting at: 8:25p.m. Meeting adjourned.

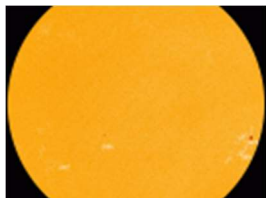
Present at the Meeting

Officers: President: Steve-KN6ORM, Vice-President: Paul-AI6BB, Secretary: Tom-KJ6OGL

Members: Dave-KF6TWW, Walt-KG6EDY, Ralph-KC6YDH, John-N6JSO, Jillian-KN6PIV
Via Zoom: Bill-N6BCT, Dennis-KN6QER, Ron-WB9EGG, Jon-N6SJF

Submitted by: Tom Oliver-KJ6OGL, Secretary
Audio recording taken for reference

NEWS



The K7RA Solar Update

04/08/2022 ~ Lots of solar activity livened up HF conditions over the past

reporting week, March 31 to April 6. Average daily sunspot number rose from 90.1 to 94.6, and daily solar flux from 132.7 to 135.3. It looks like solar flux may peak this month at 140 on April 24-28. Since March 18 we were unable to get daily solar flux from the observatory in Penticton, British Columbia, so for a couple of weeks we relied on secondary sources which were all in whole numbers, instead of resolving to 0.1. Multiple inquiries to the observatory led nowhere, but now the data is back online at <https://bit.ly/3LDlqqC>. I had to fudge the flux value for March 31, because the value of 239.5 was obviously an error, probably due to a CME overwhelming the 10.7 cm receiver at the observatory, so I averaged the morning and afternoon readings to 149.3. The official daily flux value is always from the 2000 UTC local noon reading. Geomagnetic conditions were quite active on March 31 through April 2. Average daily planetary A index for the week increased from 10 to 14.4, and middle latitude A index from 8.1 to 10.9. Spaceweather.com reported 146 solar flares over the month of March and predicts even more for April. They also report that cycle 25 is progressing faster and stronger than earlier predictions. A new sunspot group appeared on March 31, two more on April 1, another

on April 2 and one more on April 3, and one more on April 5.

The predicted solar flux is 108 on April 8-9, 105 on April 10-11, 100 on April 12-14, then 110, 115 and 120 on April 15-17, 125 on April 18-19, 130 on April 20-23, 140 on April 24-28, 135 on April 29-30, 130 on May 1, 120 on May 2-3, 125 on May 4-5, 120 on May 6, 115 on May 7-8, 110 on May 8-9, 115 on May 11, and 120 on May 12-14.

Predicted planetary A index is 12, 15, 10 and 8 on April 8-11, 5 on April 12-19, 10 on April 20-21, then 5, 15, 10 and 8 on April 22-25, 5 on April 26-28, then 18, 12, 10 and 8 on April 29 through May 2, 5 on May 3-7, then 12 and 10 on May 8-9, and 5 on May 10-16.

Solar wind in the news: <https://bit.ly/3rdXycD>

F.K. Janda, OK1HH reports: "Total solar activity has been declining. Recent CMEs generated by solar flares have usually not been headed to Earth. On April 6, the solar wind was expected to intensify from a CME generated by a filament eruption on April 3rd, but only a small portion of the solar plasma cloud reached Earth.

"The Earth's magnetic field was unsettled to active until April 2 and partly on April 4 and 7. The increased geomagnetic activity on the night of April 3 to 4 worsened diurnal short wave propagation conditions on April 4. Thereafter, despite the continuing decline in solar activity, shortwave propagation conditions improved.

"In further development, we first expect a decline in solar activity. Its growth in the second half of the month will again cause an improvement of shortwave propagation. However, the development will be slightly irregular."

Another informative video forecast from WX6SWW, Dr. Tamitha Skov: <https://youtu.be/SxU6Lv30DuQ> WB8VLC reports from Oregon: "Another fun week on 10 meters but only SSB/CW and not much FM activity. However, the SSB/CW activity was strong with signals to South Africa, Taiwan, Philippines, Norfolk Island and Australia.

It is interesting that I have not heard any European stations during any morning or afternoon openings to the east, just South Africa."

A small portion of his log:

April 3 it was New Zealand in the morning and Australia at night, followed by China and Philippines

- 2344 UTC N7ET/DU7 28.014 CW 599 Philippines
- 2340 UTC BV1EL 28.010 CW 599 Taiwan
- 2311 UTC VK3NX 28.015 CW 599 Australia
- 1900 UTC ZS3Y 28.373 SSB 55 South Africa

K5JRN reports on 6 meters from Austin, Texas: "Interesting conditions observed here on April 4 and 6. Using FT8 on 6 meters on 4/4/22, I worked HK3X (FJ24) in Columbia and HC1MD/2 (EI97) in Ecuador while running 30 W to an indoor dipole wrapped around a couple of bamboo tomato stakes glued end to end.

"That same combo helped me snag HC2DR (FI07) in Ecuador today (4/6). My signals were not strong, ranging from -13 to -24 in Columbia and Ecuador. I've also been heard in Argentina and have copied several Argentinian hams, including LU9AEA (GF05), but have not yet worked an Argentinian on 6.

"Today, I've also been heard in Uruguay by CX7CO (GF15) but have not heard any CX stations yet. Indeed, I'm not receiving anyone else on 6 except a few locals and those South American stations. The north-south paths seem like narrow pipelines."

Speaking of "narrow pipelines," from here in the northwest I often see this on 10 and 12 meters using FT8. Monitoring pskreporter.info, on April 7 at 1630 UTC on 12 meters my signal was only reported by stations on the East Coast over a narrow band, all from 2296-2359 miles from me, at first only by many stations in Virginia and North Carolina, but not South Carolina. Later at 1645 UTC coverage expanded to Florida and Georgia, but still within that narrow mileage limit. Later by 1720 UTC reports had spread to New York, Georgia and Florida, and the mileage range expanded slightly to 2119-2489 miles. But there was one major exception, HK3A in Bogota, Columbia at 4091 miles.

The night before (local time) at 0220 UTC on 17 meters I was copied only into a specific area about 2300 miles away in Ohio, Virginia, Pennsylvania, and Maryland, then suddenly at 0232 UTC the coverage expanded to California, Oregon, Texas, Alabama, and Florida. All of this with low power and a crude end-fed indoor antenna, fed with an UnUn and autotuner.

Thanks to KA7F for this link: <https://bit.ly/3rbkUj8>

Cycle 25's increasing activity is drawing the attention of the media. In this instance it is KTAR in Arizona: <https://bit.ly/3x9cv3p>

And more from Southgate Amateur Radio: <https://bit.ly/38BbEOW>

Fascinating solar phenomena: <https://bit.ly/3ra65NV>

EarthSky reports an exciting week for solar observers: <https://earthsky.org/sun/sun-activity-week-of-march-28-to-april-3/>

N0JK reports: "On Saturday April 2, 2022, NØLL (EM09) I copied LU5VV, CE2SV, LU1WFU and PV8DX on 50.313 MHz FT8 TEP. I copied CE2SV on TEP and KØSIX (EN35) calling PY5CC on 50.313 MHz Es at 2109 UTC."

For more information concerning shortwave radio propagation,

see <http://www.arrl.org/propagation> and the ARRL Technical Information Service at <http://arrl.org/propagation-of-rf-signals>. For an explanation of numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere>.

An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive->

[propagation](http://www.arrl.org/propagation). More useful information and tutorials on propagation are at <http://k9la.us/>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrl.org/bulletins>.

Sunspot numbers for March 31 through April 6, 2022, were 84, 109, 118, 129, 86, 75, and 61, with a mean of 94.6. 10.7 cm flux was 149.3, 146.6, 143.3, 140.2, 128, 122.4, and 117, with a mean of 135.3. Estimated planetary A indices were 27, 17, 22, 10, 11, 6, and 8, with a mean of 14.4. Middle latitude A index was 18, 12, 19, 7, 8, 6, and 6, with a mean of 10.9.

FCC Not Processing New License Applications

04/27/2022 ~ On Wednesday, April 27, in a notice to all [VECs](#), the FCC again asked them to refrain from submitting any amateur radio exam session or license application files while the Commission works to resolve an issue with the Universal Licensing System ([ULS](#)) application filing system.

The [ULS](#) application filing system was not functioning properly last week and then the FCC indicated the problem was resolved, as previously reported by ARRL.

However, this was not the case, as no new amateur radio call signs and licenses have been issued since Monday, April 18, 2022.

Tuesday, April 19 is the day the FCC [application fees](#) became effective for amateur radio.

ARRL VEC Manager Maria Somma, AB1FM, reports that new call signs are not being assigned by the FCC even if the applicant has paid the FCC application fee.

The FCC was processing upgrade applications through the system without an issue because there are no fees required for those applications.

In addition to new call signs not being issued even if the applicant has paid the FCC fee, some applicants are also having issues paying and logging into the system.

Other types of license application transactions may also be experiencing problems. Applicants should expect delays with license, call sign, and application processing associated with individuals and amateur radio clubs.

Amateur radio license filings are currently on hold until further notice and FCC did not estimate how long the system would be down.

We will update the public as information from the FCC becomes available.

Updated 4/22/2022 (PM)

The ARRL Volunteer Examiner Coordinator (VEC) reports that the FCC Universal Licensing System (ULS) electronic batch filing (EBF) system is back online and functioning normally. VECs may resume transmitting sessions and applications. The backlog of files will be processed through the system.

4/22/2022 (midday)
FCC Not Processing License Applications and Exam Session Files

The ARRL Volunteer Examiner Coordinator (VEC) reports that the FCC Universal Licensing System (ULS) electronic batch filing (EBF) system has been down since midday Tuesday, April 19, 2022, which is the day the FCC application fees became effective for amateur radio.

On Wednesday, in a notice to all VECs, the FCC asked them to refrain from submitting any session or application files while they work to resolve the issue.

ARRL VEC Manager Maria Somma, AB1FM, said the FCC did not estimate how long the system would be down. Some applications were processed through the system before the FCC notice was released to the VECs.

Applicants should expect delays with license and application processing. ARRL VEC will provide an update when the FCC communicates that the filing system is back online.



ITU Celebrates 2022 World Amateur Radio Day

4/21/2022 ~ In recognition of World Amateur Radio Day, held

on April 18, the International Telecommunication Union (ITU) published articles and social media posts highlighting various facets of ham radio. This included an ITU News interview with Philipp Springer, DK6SP, Chair of the International Amateur Radio Union (IARU) Region 1 Youth Working Group, and the article, "How to become a radio 'ham' in the digital era," by Nick Sinanis, SV3SJ,

ITU Study Group Advisor and head of the ITU radio station, 4U1ITU.

Springer, age 24, earned his ham radio license when he was 9 years old. In his interview with ITU News, he explained the variety of operating techniques and social connections is part of what motivates young people to become active in ham radio in an increasingly digital world. "It's technical parts like experimenting with radio science, soldering, developing, and building electronics, in practice and not just theory," he said. "Secondly, it's [the] social part: we are connecting with other communities, meeting radio operators from all around the world. Lastly, we connect with other cultures: we practice foreign languages, visit other countries, and get on the air at so-called 'expeditions.'" Springer is also featured in an ITU video on YouTube.

In his article, Sinanis explained that "ITU plays a key role in amateur radio by overseeing the standardization and regulatory processes of the radiocommunication sector (ITU-R), with special emphasis on its utility in emergency communications." The ITU is the United Nations specialized agency for information and communication technologies, and the International Amateur Radio Union (IARU) contributes to the work of the ITU as a Sector Member. World Amateur Radio Day marks the annual anniversary of the IARU, formed in Paris on April 18, 1925.

The ITU also celebrated World Amateur Radio Day via posts on Twitter:

- twitter.com/ITUradiocomms/status/1515964908894142470
twitter.com/ITU/status/1515967346334179336
twitter.com/ITUradiocomms/status/1516077442850557953
twitter.com/ITUradiocomms/status/1516394912509530118
twitter.com/ITU/status/1516392416558862343

-- Thanks to Dave Sumner, K1ZZ

MAY PUZZLER

PAUL ATKINS, AI6BB

E C O N T R O L L E D R T T I U C R I C
 A M A T E U R N O I S R E V N O C M N T
 L O A D I N G C E N C O U L O M B C O W
 E M I S S I O N S O I L V V K T F O I I
 R E G A R O T S Z W E S O Z R H H U T N
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 N X Z O S N E V I R D D I R G I G T T E
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 I M U L T I P L I E R Y S Y S O T R H D
 S L A N O I T C E R I D U J M A A O O P
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 R E L O P I D O I M K N C E M V F C Z A
 P R D B O T A L U N A X I B E I L A O L
 M I S E R D E D I T J W L I O I V P N L
 O E R A C V I L I L T Q A L U Z A A T E
 C L P T A L R O C I T A M O T U A C A L
 Z L Y R L I N O I T A N I D R O O C L N
 J U T I A Z J O F P P A R I T Y O H K P
 J F M C L A S S A T N E M N O R I V N E

WORDLIST

active	dipole	multiplier
airlink	directional	nec
amateur	dummy	ocf
automatic	emissions	parallel
beat	environment	parity
capacitor	full	passive
circuit	gain	standing
classa	griddriven	station
combination	horizontal	storage
compression	indices	strength
controlled	light	timeout
conversion	load	trap
coordination	loading	traveling
coulomb	long	twinlead
counter	malicious	vswr
	milli	

ANSWER TO APRIL'S PUZZLER

R E S O N A N C E A E N I L W O D N I W
 B Q H A T L E D K M T E L G N I S I F B
 V X A X N A C C R E D I T E D A R R L L
 S P L I U T A E U R Y E C A F R U S K A
 O I F U O B T D C I T E F A R E L A Y N
 V H G V M E B I A C D J R K E K O H C O
 E C I N K R T J O A E T I R R E F R E I
 R K L C A A E N M N U S E A B L E J E T
 L S A O M L R T G A T E W A Y X C E L A
 O P W O C U S E E E R I W N E L O M D E N
 A C T R B K N D H M Q T N N C A E R C R
 D U E F B I I O V L T O O L R K L I T E
 A R R H K R R C O I I L R F C B B V R P
 A N W A V E I A Q T F Y O T Y D A E I E
 O S E E T H O O C U D C M V K C C R C A
 Q R N E O I N N G S T A R T B I T V D T
 B I M P N I U U F E V W B Y A G I K Z E
 L M B G R J J A B S O R P T I O N G N R
 A H A R M O N I C L E V E L L L A C F G
 Z S O L A R E S P L I T T E R O I D U A

COMING EVENTS

Pacifica CERT (Community Emergency Response Team)

For training and information

<https://pacificacert.samariteam.com/RequestInfo.aspx>

email: <mailto:cert@pacificapolice.org>

QCWA NorCal Chapter 11 - Lunch at Harry's Hoffbrau

3rd Wednesday of every month

1909 El Camino Real, Redwood City, CA.

No host. 11:00AM to 1:00PM (approx).

CARC MEETING/EVENT SCHEDULE *

Date	Event
Jan 12th	Zoom Meeting - 2022 Agenda Planning
Feb 9th	Zoom Meeting - 2022 Agenda Final
Mar 9th	Zoom Meeting
Mar 13th	Daylight Savings Time Starts
Apr 13th	Firehouse Meeting
May 11th	Firehouse Meeting – Field Day Planning
Jun 8th	Firehouse Meeting - Final Field Day Planning
Jun 25th-26th	Field Day - Details TBD
Jul 13th	Pizza Meeting
Aug 10th	Firehouse Meeting
Sep 14th	Firehouse Meeting - 2023 Officer Nominations
Sept 24th-26th	Pacific Coast Fog Fest
Oct 12th	Firehouse Meeting - Review 2023 Slate of Officers
Nov 6th	Daylight Savings Time Ends
Nov 12th	Dinner Meeting & Election of Officers, Location TBD
Dec 14th	Firehouse Holiday Potluck Dinner

** All meetings were held via Zoom until COVID-19 restrictions were lifted by the state and county for in-person gatherings in public places. As of March 9th, it was determined that meetings were now approved at the Pacifica Firehouse on Linda Mar Boulevard. If feasible, meetings will continue to 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.

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63 years



of Service

53 years



Affiliation



www.smcready.org
 cert@pacificapolice.org



COASTSIDE NETS

Monday

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

7:30 PM on WA6TOW
146.925 MHz, PL 114.8
San Bruno ARC Net

Tuesday

7:30 PM on WA6TOW
146.925 MHz, PL 114.8
Daly City ARES 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
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Secretary	Tom Oliver	KG6OGL	(640) 488-0704	toliver0577@gmail.com
Treasurer/ co-Treasurer	Frank Erbacher Paul Atkins	N6FG AI6BB	(650) 355-4355 (415) 810-9152	n6fg@arrl.net ai6bb@arrl.net
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Control Operator	David Rinck	K6DMR	(650) 355-1778	k6dmr@arrl.net
Emergency Services	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
Field Day	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
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Trustee of Club Call	David Rinck	K6DMR	(650) 355-1778	k6dmr@arrl.net
Website	Paul Atkins R. Scott Sutor	AI6BB KM6SCD	(415) 810-9152	ai6bb@arrl.net

**MEETING
NOTICE:**



**MAY 11, 2022 7:30 PM (FIREHOUSE & ZOOM)
WATCH FOR INVITATION VIA E-MAIL OR CONTACT
CARC_INFO@COASTSIDEARC.ORG TO BE ADDED**

COASTSIDE COMMUNICATOR

EDITOR
P.O. BOX 1106-6106
PACIFICA, CA 94044

FIRST CLASS

TO: