



THE COASTSIDE COMMUNICATOR

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WWW.COASTSIDEARC.ORG



Coastside ARC Field Day - 2022

PRESIDENT'S COLUMN

That's another Field Day in the bag! This year we had a considerable challenge with changes of circumstance. We started out applying for our previous Sweeney Ridge location at the Discovery Site. Unfortunately, this year we could only have limited access to the site, which included a curfew. Instead, we found a new location in Oceana High

School at the northern parking lot. There were some worries that being behind Milagra Ridge would affect propagation, but in the end these proved unfounded. On the other hand, access was much easier, being right in the middle of Pacifica.

We made the decision to rent an RV this year, which in retrospect was a wise decision as we could fit two stations with ease. Earlier in the month, with help

from Gary KI6HIG we had renovated the 20m beam, which performed well. We made QSOs with stations from Hawaii to Puerto Rico and all around the continent. A surprise contact was from a station in Myanmar.

Thank you to all the people who helped Field Day come together this year. In particular Jon N6SJF went above and beyond in bringing everybody together and getting the equipment together. Jon together with Walt KG6EDY, Ron WB9EGG and Paul AI6BB were our main operators. It was particularly challenging as so many things had changed from previous years. Frank N6FG was out of town and we had to adapt to the new location.

Let's discuss our experiences at the next meeting, which will be held at the Round Table Pizza on July 13th. I hope you can join us there.

*73, Steve KN6ORM
Club President*

CARC JUNE 8, 2022, MEETING MINUTES

Call to Order

The June 08, 2022 meeting called to order at 7:40pm by: President Steve Austin-KN6ORM, at the Linda Mar Fire Station, Linda Mar Blvd., Pacifica. Attempting to include participants via Zoom.

Self-introductions

Introductions by members in attendance.

Minutes

Motion made by Walt-KG6EDY and seconded by Jon-N6SJF to approve the May minutes as posted in The Coastside Communicator. Motion passed by unanimous vote of the membership present.

TREASURER'S REPORT

Funds

The Treasurer, Frank-N6FG not in attendance. The funds provided by co-Treasurer as of 5/31/22 are

provided below:

General Fund	\$ 5,303.20
Repeater Fund	\$ 1,882.00
APRS/Digipeater	\$ 1,475.00
EOC/Public Service	\$ 13,530.00
Grand Total	\$ 22,190.20

Membership – No Report

Bills needing approval – No Report

Correspondence – Updates on Field Day from Jon. Steve contacted Fog Fest and submitted forms. Also informed Casey that we are doing radio dispatch.

COMMITTEE REPORTS

Current Repeater

1. Current status of WA6TOW repeater: Working well. No changes.
2. APRS - Working
3. Emergency Services – No Report

Replacement Repeater

1. Update on Replacement Repeater: Walt stated some parts are trickling in. He found a programming USB cable. Has tried to get one of the repeaters, 2m/70cm, to repeat w/o success. Dave-KF6TWW spoke with Roy and was supposed to meet today but he cancelled due to a medical issue with his wife. Has had some medical issues himself but is doing fairly well. Looking promising for getting the remainder of parts from him. Dave & Walt made another trip to storage locker and found more cables and parts. As far as Dave can tell, there are no additional parts in the locker and is ready to return the key to Roy.

NEWSLETTER – Published.

WEBSITE – Working. Newsletter uploaded for viewing.

UNFINISHED BUSINESS

- A. CARC Events Calendar – No further events suggested. CLOSE – Remove from list.
- B. 20-meter Antenna – Ongoing - Gary-KI6HIG is waiting for Frank-N6FG to contact and schedule.

Update 5/31: Gary met at Frank’s house and checked the 20m beam antenna and found measurements that were out of spec. Gary recommends replacing the balun. Removed, cleaned and reassembled, surfaces on the metal tubing. Rechecked measurements, now within spec. Checked a couple of the cables, but not knowing the length, could not determine what the losses should be. Gary ordered some replacement stainless steel nuts & screws. The beam is now stored in Jon’s storage locker. He also has purchased some needed parts. Frank-N6FG stated that if the 15-meter beam is going to be used, the same checks need to be done also.

C. Field Day – Jon-N6SJJ has collected most of the parts for the Club radio station. Walt is also bringing a station. He received response from GGNRA about Sweeney Ridge permit. Restrictions are making for difficult in/out access – requires Park Ranger to escort. No personal vehicle traffic allowed. Permit for 1-hr before sunrise and 1-hr after sunset. No overnight camping. Held Zoom meeting on May 28 to discuss issues. Ron-WB9EGG sent Jon forms from Oceana HS to submit for use for FD. Jon filled out and submitted. Requires 20-days for review. Discussion covered: Van/Truck/RV rental, Port-A-Potti rental, equipment required, use of personal antennas and other equipment. Jon picked up equipment from Frank and placed in his storage locker for staging. Jon has received communications from Oceana confirming receipt of application and waiting for approval for either parking lot or field.

Update 6/9: We just received permission to use the upper parking lot! We are also permitted to bring an RV if we wish. They waved many of the charges and have reduced the charge to \$680 for the permit. This is a bit higher than we budgeted but I think we’ll be saving money elsewhere. This fee needs to be paid by the 14th, this coming Tuesday. I am also contacting Cheryl Ludewig the insurance agent about adding Jefferson as additional insured. Jon has rented an RV.

D. Fog Fest – Forms received, filled out and submitted for Dispatchers.

E. Paul, Jon, and Tom continuing project work of tallying members of the Club and the ARRL. On-hold – Field Day planning taking priority right now.

NEW BUSINESS

A. Proposal for new Club Banner – Ron-WB9EGG questioned if we have a banner that we can hang on a fence for Field Day. We do not, just the sign on a

pole. Between Jon-N6SJJ and Tom-KJ6OGL, we’ve come up with a couple of sample banners. One in portrait mode and one in landscape mode. On Monday, Tom contacted The Sign Guy in Pacifica for quote on a 6’ x 2’ banner. \$72 with folded and stitched edging and 6 grommets. Club is in agreement to fund having the banner made for Field Day. Motion made by Jon-N6SJJ to budget \$1500 for Field Day seconded by Ron-WB9EGG. Motion passed by unanimous vote of the membership present. Asking members to volunteer the use of their vehicles to transport equipment.

B. We are six months away from Election dinner – do we want to go back to Nick’s or somewhere else. Jon will contact Nick’s to make reservations. Tentative date is Nov 5th.

Adjournment

Motion made by Frank-N6FG and seconded by Gary-KI6HIG to adjourn the meeting at 8:45p.m. Meeting adjourned.

Present at the Meeting

Officers: President: Steve-KN6ORM, Vice-President: Paul-AI6BB, Secretary: Tom-KJ6OGL, Treasurer: Frank-N6FG

Members: Walt-KG6EDY, Ralph-KC6YDH, Ron-WB9EGG, George-KJ6TSX, Jillian-KN6PIV, Jon-N6SJJ, Gary-KI6HIG, KF6TWW

Via Zoom: Dennis-KN6QER, Casey-N6TZE, Dave-K6NIA, Josh-N6TZF, Tom-KJ6OGL, Paul-AI6BB

Submitted by: Tom Oliver-KJ6OGL, Secretary

===== *Audio recording of meeting made for reference* =====

NEWS



**ARRL Field Day
2022: 500,000
Contacts Already
Reported**

July 1, 2022 ~ ARRL [Field Day](#) wrapped up nearly a week ago, and ARRL Headquarters has already received over 2,400 entries submitted via the online [Field Day Entry web application](#). Early analysis

reveals that most of the entrants participated as Class D -- home stations, and Class E -- home stations using emergency power.

As of June 29, the breakdown of Field Day entries by Class showed 2,723 total entries, with 272 in Class A, 361 in Class B, 32 in Class C (mobile), 1,524 in Class D, 484 in Class E, and 50 in Class F.

So far, a total of over 517,000 contacts were reported for the event and those numbers are changing daily. In 2021, there were 1.5 million contacts made during Field Day activities.

Many participants were keeping their hopes up for better propagation, as early forecasts were looking promising. ARRL Contest Program Manager Paul Bourque, N1SFE, said that propagation aside, there was substantial activity. "While band conditions might not have been the greatest, there was a good amount of activity on the bands this past weekend. Many participants seemed to agree that the recent rule changes, capping transmitter power output to 100 W, were a good idea," he said.

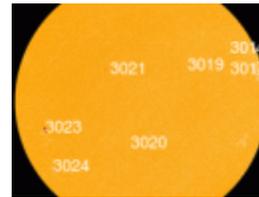
Dustin Lomax, KF7FK, reported in his Soapbox comments that it was his first Field Day in which he used CW, adding that "CW was a fun change of pace that really helped make the most of marginal band conditions in WWA [Western Washington]."

There is still plenty of time to submit your 2022 Field Day entry. Participants who submit their entries using ARRL's [Online Submission Form](#) can earn 50 bonus points and will receive an email confirmation of their completed entry. Be sure to check the [Entries Received](#) web page to verify your entry's status. If it indicates "Pending documents," the required dupe sheet (or in lieu of that, a Cabrillo log file) or other supporting documentation of claimed bonus points is missing.

Participants can edit or add documentation to their online submissions by using the link provided in the confirmation email. Field Day entries must be submitted online or postmarked no later than 2059 UTC on July 26, 2022.

2022 Field Day was highly promoted thanks to the efforts of many ARRL Division and Section volunteers, amateur radio clubs, and their members. Many states and counties obtained special proclamations from local governments designating the weekend (in some cases the whole week) as Field Day and Amateur Radio Week, recognizing the many contributions of amateur radio operators during emergencies and with serving their communities.

ARRL treated participants with a live video stream from W1AW, its Headquarters' station, throughout Field Day. Life Member Karl Schwab, KO8S, of Warren, Michigan, was delighted with making contact with W1AW during Field Day. "I heard W1AW calling CQ Field Day on 20 m SSB," wrote Schwab. "I responded and then heard, 'Kilo Oscar Eight Sierra, you're 5 Foxtrot Connecticut.' I responded with my report, and got in their log. ... After Field Day, and uploading my log, I went to the ARRL website and there I found a 4-hour video was available on YouTube, showing W1AW during their Field Day activities. While watching this video, at hour 2, minute 55, I heard and saw my live contact with them! [This] was a special moment for me. One I will never forget." A recording of the W1AW live stream is on ARRL's [YouTube channel](#).



The K7RA Solar Update

July 1, 2022 ~ Solar activity took a dramatic plunge over the recent reporting week (June 23 to 29) but geomagnetic activity stayed exactly the same. Field Day weekend saw rising geomagnetic numbers, with planetary A index at 8, 16 and 23, Friday through Sunday.

On Sunday the geomagnetic activity was a problem, although not severe, with many stations in Field Day reporting increased absorption. The planetary K index peaked at 5 (a big number) at the end of the UTC Day on Saturday and continued into the early hours of Sunday, which was early Saturday evening here on the West Coast.

This happened because of a crack in Earth's magnetosphere, detailed here: <https://bit.ly/3ONZdQ9> Compared to the previous seven days, average daily sunspot numbers declined from 124.6 to 49.1, while average daily solar flux dropped from 140.5 to 105.3. Planetary and middle latitude A-index averages were both the same as the previous week, all numbers around 11.

The prediction from the USAF 557th Weather Wing is not very optimistic, with solar flux peaking at 140 on July 11 to 16.

The prediction shows 10.7 cm solar flux at 90 on July 1, 95 on July 2, 105 on July 3 to 5, then 110, 120, 130 and 135 on July 7 to 10, 140 on July 11 to 16, then 135, 130, 125 and 120 on July 17 to 20, and 115, 110, 105 and 100 on July 21 to 24, 95 on July 25 and 26, 100 on July 27 to 29, then 105, 110, 115, 120 and 125 on July 30 through August 3, then 130 on August 4 and 5, and back to 140 again on August 7 to 12.

Predicted planetary A-index is 5 on July 1 to 7, then 8, 8, 12 and 8 on July 8 to 11, 5 on July 12 and 13, 12 on July 14 to 16, 10 on July 17, 8 on July 18 to 21, then 12, 15, 15 and 10 on July 22 to 25, and 5 on July 26 through August 4, then 8, 12 and 8 on August 5 to 7.

F. K. Janda, OK1HH writes, "Solar activity has declined over the last seven days. Geomagnetic activity was highest on June 26(G1-class geomagnetic storm broke out around midnight UT on June 25and 26) and was lower on June 28 and 29. On June 26, a big, bright CME billowed away from the sun's southern hemisphere. A slow-moving CME that left the sun could pass close to Earth on June 30. The near miss, if it occurs, could disturb our planet's magnetic field.

A dark filament of magnetism erupted in the sun's northern hemisphere on June 28, but no CME was observed after the explosion. Shortwave propagation conditions were relatively worse on June 26 and 27. After that, they began to improve, but only very slowly due to the declining solar activity."

A new space weather report and forecast from Dr. Tamitha Skov, WX6SWW, our Space Weather Woman.

https://youtu.be/0yAS_FpLTsk

Tomas Bayer of the Department of Geomagnetism, RWC Prague, at the Budkov Observatory wrote this geomagnetic activity summary:

"After the last active events on June 24 to 26, which without a storm event did not exceed the active level (local K-index = 4), we expect a geomagnetic activity decrease to quiet to unsettled level during the coming seven days.

More unsettled geomagnetic activity can be expected about July 3 and 4, and also at the end of the currently forecast period on July 7. Then we expect geomagnetic activity at a quiet to unsettled level." Here are pictures of the Budkov Observatory:

<https://bit.ly/3uqnUfv>

<https://bit.ly/3bH9PI4>

How big is our nearest star?

<https://bit.ly/3yb6cv6>

Cycle forecasts, wrong or right?

<https://bit.ly/3R3HQfF>

Storm watch, from the popular press:

<https://bit.ly/3bGvXfs>

Reader David Moore, a frequent contributor, sent this:

<https://bit.ly/3Aqoo9g>

It hasn't been updated recently, but here is a blog devoted to propagation:

<http://ka5dwipropagation.blogspot.com>

Send your tips, questions, or comments to k7ra@arrl.net

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>.

More good 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 June 23 through 29, 2022 were 69, 60, 31, 33, 32, 71, and 48, with a mean of 49.1. 10.7 cm flux was 121.4, 115.4, 108.1, 102, 98.2, 96.1, and 96.2, with a mean of 105.3. Estimated planetary A indices were 10, 8, 16, 23, 12, 8, and 6, with a mean of 11.9. Middle latitude A index was 12, 8, 14, 15, 15, 11, and 7, with a mean of 11.7.



ARRL Headquarters is Closed on Monday, July 4, for Independence Day

07/01/2022 ~ [ARRL, The National Association for Amateur Radio®](http://www.arrl.org) will be closed on Monday, July 4, for the Independence Day holiday. There will be no [W1AW bulletin](#) or [code practice transmissions](#). ARRL Headquarters will reopen on Tuesday, July 5, at 8 a.m. EDT.

The [Baton Rouge Amateur Radio Club](#) will operate a special event station, W5KID, from the USS KIDD Veterans Museum in Baton Rouge, Louisiana, on July 4. The USS KIDD (DD-661) is a Fletcher-class destroyer, the 661st destroyer built by the United States Navy. She was named after Rear Admiral Isaac Campbell Kidd, Sr. who was killed aboard his flagship, USS ARIZONA (BB-39) during the attack at Pearl Harbor on December 7, 1941. The Baton Rouge Amateur Radio Club is an ARRL Affiliated Club, and supports year-round operating events from the museum for outreach and promotion of the club and amateur radio.

Visit the ARRL [Special Events Stations](#) database to find more on-the-air events.

ARRL wishes its members and friends a safe and enjoyable holiday!

JULY PUZZLER
PAUL ATKINS, AI6BB

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

WORDLIST

adapters	junction	shack
allocation	mean	signal
amplifier	monitor	snr
birdie	morsecode	startbit
bnconnector	oscillator	surface
bridge	parity	switch
classb	policing	swr
demodulation	power	symbolrate
directional	radio	tolerance
doping	ratio	transconductance
dregion	refract	trap
driver	resonant	wavelength
dx	rotor	willful
electromagnetic	sar	winding
henry	secondary	xmtr
	services	

ANSWER TO JUNE'S PUZZLER

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

COMING EVENTS

Pacifica CERT (Community Emergency Response Team)
For training and information
<https://pacificacacert.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, Round Table at Linda Mar Shopping Center
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.

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

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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 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				
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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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**MEETING
NOTICE:**



**JULY 13, 2022 7:30 PM (FIREHOUSE & ZOOM)
WATCH FOR INVITATION VIA E-MAIL OR CONTACT
CARC_INFO@COASTSIDEARC.ORG TO BE ADDED**

COASTSIDE COMMUNICATOR

EDITOR

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FIRST CLASS

TO: