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# THE COASTSIDE COMMUNICATOR

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VOL. 54

No. 8 AUGUST, 2022

[WWW.COASTSIDEARC.ORG](http://WWW.COASTSIDEARC.ORG)



## ***Coastside ARC Field Day - 2022***

### **PRESIDENT'S COLUMN**

We had a great discussion at the last meeting about our experiences with Field Day. This year was quite a departure from previous years, as we held it at Oceana High School. Everybody involved thought that it went pretty well, and we will probably adopt a similar arrangement next year.

The next big event on our calendar is going to be coordinating radio communication at Fog Fest. After being canceled for the last two years, due to COVID, it is finally back on for 2022. This is a great opportunity to give back to our community and to raise awareness of the club. We act as radio dispatchers and answer any questions that the

participants may have. CARC also receives a portion of the event proceeds, so we help out ourselves as well as helping our community. Please consider volunteering, particularly if you have helped out at the event in previous years. Fog Fest will be held on September 24th and 25th this year.

We also have to start thinking about the election of club officers in November. I'll be announcing the process at the August 10th meeting at the firehouse. If you would like to apply for a position, please contact me or one of the other officers.

At our last meeting, we talked about ending the meeting by having a tech discussion. Previously, we talked about good beginners' HTs. Maybe next meeting we can talk about mobile HF rigs? A few of us live in places where we are restricted about which external antennas we can deploy around our houses, but we can always get out and about. What is your favorite mobile antenna? What about mobile HF transceivers? I look forward to seeing you and hearing about your ideas on the 10th.

73, Steve KN6ORM  
Club President

## CARC JULY 13, 2022, MEETING MINUTES

### Call to Order

The July 13, 2022, meeting called to order at 7:31pm by: President Steve Austin-KN6ORM, at Linda Mar Round Table Pizza in the Linda Mar Shopping Center, Pacifica. Attempting to include participants via Zoom.

### Self-introductions

Introductions by members in attendance.

### Minutes

Motion made by Dave-KF6TWW and seconded by Walt-KG6EDY to approve the April minutes as corrected. Left Dave's name off on the June meeting attendance list. Back side (mailing) of Communicator did not correctly list location for July meeting. Motion passed by unanimous vote of the membership present.

## TREASURER'S REPORT

The funds provided by co-Treasurer as of 6/30/22 are below:

	6/30/2022
General Fund	\$ 4,623.20
Repeater Fund	\$ 1,882.00
APRS/Digipeater	\$ 1,475.00
EOC/Public Service	\$ 13,530.00
Grand Total	\$ 21,510.20

Expenses for Field Day (to date)

Co-Treasurer Paid Field Day Expenses to Jefferson UHSD for Facility Use Permit (2-days), \$352.36 for motorhome rental (Thank You to the Generous Donors who helped offset the costs) and \$78.75 to Tom-KJ6OGL for the Club Banner.

Space Rental, Jefferson UHSD	\$ 680.00
RV Rental	352.36
Banner	78.75
Subtotal	\$1,111.11

Membership – No Report

Bills needing approval – None.

Correspondence – New member application received from Ellen Price-KN6UNF. Secretary Tom-KJ6OGL sent welcome letter to Ellen.

## COMMITTEE REPORTS

Current Repeater

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

Replacement Repeater

Update on Replacement Repeater: Walt & Ralph got both the 2m & 440cm to repeat (not on air). The output connector on the back of the 440 filter has popped out, so need to find new connector. Steve-KN6ORM asked what else we have to do for testing. Walt said we need a cable (Motorola programming) that Roy has. There may be more parts he might have. Dave-KF6TWW to attempt

contacting Roy Thursday or Friday. If no response, he won't be able to contact until later in August.

NEWSLETTER – Published.

WEBSITE – Working. Newsletter has been uploaded for viewing/downloading.

**UNFINISHED BUSINESS**

**A.** Field Day wrap up –Made 105 contacts and earned approximately 986 points. Distant contacts were Puerto Rico, Myanmar (Burma) and Hawaii. Other contacts were from Alberta & British Columbia, Canada. The remainder were the continental US. Thanks again to Gary-KI6HIG for his help with Frank-N6FG on the 20-meter antenna repairs. Gary asked if the Club also has a 15-meter and 10-meter antennas. Said the same checks should be done to use next year. General consensus is that we do again. Plan for event about 3-months earlier. Question asked that since we are going to hold FD at Oceana High School again, would it make sense contacting them to see if they might have a radio club or if some of the kids might be interested in ham radio. Ron-WB9EGG has a contact at the school to make the arrangements for doing a demonstration for them. Tom-KJ6OGL donated coffee & donuts for Saturday's group.

**B.** Fog Fest – Steve-KN6ORM has not had any report back from the Fog Fest folks after submitting forms.

**C.** Club Banner – Tom-KJ6OGL had a vinyl banner made by The Sign Guy in Pacifica for \$78.75. Submitted receipt to Co-Treasurer and has been paid.

**D.** Election dinner – Jon-N6SJF contacted Nick's restaurant and has made reservations for Saturday, November 5<sup>th</sup> for the November Election Dinner. They asked Jon to contact them in September to put together a meal plan and pricing.

**NEW BUSINESS**

**A.** Steve-KN6ORM created a CARC FB page. He wanted to have visibility to social media.

**B.** Fog Fest - Should start planning now. Frank to check his computer for files to send to Steve-KN6ORM. Tom-KJ6OGL will also check for volunteer spreadsheet files.

**B.** Membership cards – Tom-KJ6OGL proposed having Membership cards made for members. After some discussion with members present, it was

decided not to do further research on. Motion made by Ralph-KC6YDH and passed by Gary-KI6HIG for Paul to remove the "SASE" requirements when sending in new member application from the website. Tom to check with local engravers for pricing for name tags.

**C.** July 24<sup>th</sup> SF Radio Society is looking for volunteers for their 2022 San Francisco Marathon.

**D.** Steve asked if we'd like to have discussions at the end of our meetings about a "Topic of the Month". We could have in-person presentations or via Zoom. Will look further into.

**E.** Additional talk on getting the high school involved with amateur radio. Have some come to a meeting or at next years Field Day. Need to do further research.

**F.** Paul would like to relinquish some of his duties. He is VP, Co-Treasurer, Web Master, and Newsletter Editor. Looking for volunteers to take over some of his duties. Further discussion at next meeting.

**Adjournment**

Motion made by Dave-KF6TWW and seconded by Paul-AI6BB to adjourn the meeting at 8.50p.m. Meeting adjourned.

Bill-N6BCT mentioned joining him on the Saturday morning Net on 3852 kHz at 9am.

**Present at the Meeting**

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

**Members:** Dave-KF6TWW, Gary-KI6HIG, Walt-KG6EDY, Georgia-KE6KRT, Jon-N6SJF and Julie, Ralph-KC6YDH, Jillian-KN6PIV, Barbara-K6IIP, Toby Austin - Steve's nephew

**Via Zoom:** Ellen-KN6UNF, Bill-N6BCT

Submitted by: Tom Oliver-KJ6OGL, Secretary

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## NEWS



### **The 2021 ARRL Technical Innovation Award Honors Wojciech Kaczmarski,**

**SP5WWP**

07/15/2022 ~ The 2021 ARRL Technical Innovation Award honors Wojciech Kaczmarski, SP5WWP, for developing a new digital radio communication protocol, [M17](#), for the good of amateur radio.

M17 is a new open-source and patent-free digital radio protocol with a goal to provide a fully sustainable option for digital radios in the future.

ARRL member Ed Wilson, N2XDD, the Community Manager of the M17 Project, accepted the 2021 Technical Innovation Award plaque on behalf of Kaczmarski when Wilson visited ARRL Headquarters on Tuesday, July 12, 2022. The award plaque is being shipped to Kaczmarski in Poland.

The efforts of Kaczmarski and other M17 community team members have led to the development of DroidStar, an Android application by Doug McLain, AD8DP. The protocol has also been incorporated within other amateur radio-related projects to help advance the radio art.

### **QST Now Offering a Column for Radio Clubs**

07/22/2022

ARRL invites you to be part of "Club Station," the newest column in QST. This column is a space for radio clubs to share the different ways in which they're successful to help other clubs grow. They do this by offering advice, and practical solutions to common experiences and problems.

In each issue, a different club will share how they undertook a specific activity or project, how and why it was successful, and any challenges they may have had to overcome throughout the process. Some examples include, but aren't limited to, successful community club projects, innovative ways to attract new members, getting youth involved with ham radio, and developing active hams.

"Clubs are the backbone of the amateur radio community," said ARRL Field Services Manager Mike

Walters, W8ZY. "If your club is doing something that will inspire other clubs, we want to hear from you!"

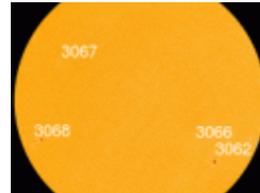
"In order to help you tell your story, ARRL has published author guidelines that are geared toward 'Club Station,' and they include a club profile form," said QST Editor Leanna Figlewski, KC1RMP. Both of these documents can be found at [www.arrl.org/qst-club-station-guidelines-and-profile-form](http://www.arrl.org/qst-club-station-guidelines-and-profile-form). "You don't have to have writing experience to be published in QST. If your submission is accepted, our editorial staff will work with you to get your story ready for publication."

All clubs are welcome to participate. The first iteration of "Club Station" appeared in the August 2022 issue of QST and includes more information about what members can expect to see from the column.

If you have any questions, contact us at [clubs@arrl.org](mailto:clubs@arrl.org). We look forward to hearing from you about your radio club!

[QST](#) is an ARRL membership benefit. Join ARRL or renew your membership at [www.arrl.org/join](http://www.arrl.org/join).

### **The K7RA Solar Update**



07/29/2022 ~ Although images of the sun this reporting week, July 21 to 27, showed plenty of sunspots, only two new spots emerged, one on July 21, and another on July 25.

Another new sunspot appeared on July 28, but the sunspot number declined to 50 from 52 the day before.

Average daily sunspot number declined from 137.3 to 91.1, and average daily solar flux softened by 50 points to 107.6.

The headline on [spaceweather.com](http://spaceweather.com) on July 28 said, "Quiet Sun."

Geomagnetic indicators began this reporting week fairly active, with planetary A index at 22, then it quickly quieted down to an average of 11.7 for the week, higher than the 9.4 average reported last week. Average middle-latitude A index increased from 9 to 10.4.

A look back a year ago shows this cycle is progressing nicely. In ARLP030 in 2021 average daily sunspot number was just 48.9, and average daily solar flux only 81.3.

A year prior the average daily sunspot number in 2020 was just 3.1! That is because there were five days with no sunspots, then two days with a sunspot number of only 11, which is the minimum non-zero sunspot number.

A sunspot number of 11 does not mean 11 sunspots. It means there was just 1 sunspot group (which counts

for 10 points) and one sunspot in that group, counting for 1, producing a total of 11, because of the arcane historical method of counting sunspots.

Predicted solar flux shows it peaking at 130 on August 11.

Predicted flux is 92 on July 29 to 31, 90 on August 1, 88 on August 2 to 4, 92 on August 5, 115 on August 6, 113 on August 7 and 8, then 120, 125, 130 and 125 on August 9 to 12, 120 on August 13 to 15, 118 on August 16 and 17, then 114 and 110 on August 18 and 19, 108 on August 20 and 21, then 106 and 102 on August 22 and 23, 100 on August 24 to 27, 108 on August 28 and 29, 110 on August 30 and 31, 115 on September 1 and 2, and 113 on September 3 and 4. Solar flux peaks again at 130 on September 7.

Predicted planetary A index is 8 and 12 on July 29 and 30, 8 on July 31 and August 1, 5 on August 2, 8 on August 3 and 4, 5 on August 5 to 10, 8 on August 11 and 12, 5 on August 13 to 16, 22 on August 17, 15 on August 18 and 19, 8 on August 20 and 21, 5 on August 22 to 25, 10 and 12 on August 26 and 27, 5 on August 28 and 29, 12 and 10 on August 30 and 31, and 5 on September 1 to 6.

USAF/NOAA Solar Geophysical Activity Report, 2200 UTC on 28 Jul 2022

<https://bit.ly/3votD3A>

OK1HH wrote on July 28:

"Over the last seven days, solar activity has been steadily decreasing. From some class C flares to the 'almost no chance of flares' announcement today. But we observed some interesting anomalies. For example, geomagnetic disturbance on July 21 caused two improvements in ionospheric shortwave propagation conditions around 1400 and 1930 UTC. A CME hit Earth's magnetic field on July 23rd at 0259 UTC. The impact triggered a G1-class geomagnetic storm and in the early hours of the morning UTC, 6-meter band users were able to establish a series of contacts between central Europe and the US East Coast.

The proton density in the solar wind, which suddenly rose on 27 July between 2000 and 2100 UTC, was accompanied by a significant improvement in shortwave propagation between Europe and the Caribbean, while closed at the same time the path between Europe and North America.

A small coronal hole of positive polarity located just to the north of the solar equator that crossed the central meridian on July 26 is expected to influence solar wind starting July 29. Geomagnetic activity will increase again."

KD6JUI wrote:

"I go out in my kayak once per week to operate QRP. Today, Thursday, July 28, I set out on Lake Solano (northern CA) not expecting much action due to a low solar flux (93.4) and predicted MUF of about 14 MHz.

When I first checked 17m I heard a CW pileup apparently going after a Swiss station. I had a couple contacts on 17 and 20m. A couple hours later, I moved from the middle of the lake to the shade of a tree along the bank (temps were in the high 90s). My loop antenna was half surrounded by foliage, which I figured would interfere with my signal. Nonetheless, I gave 17m CW a try again, and contacted F8IHE almost immediately. All he could copy was my call sign, but that was enough for me!

Always a surprise."

What are sunspots?

<https://bit.ly/3vk6GhW>

Fun Morse Code app:

<https://morsle.fun/help/>

A fun one-hour twice weekly relaxed CW activity, the Slow Speed Test, every Friday and Sunday:

<http://www.k1usn.com/sst.html>

Send your tips, reports, observations, questions and comments to [k7ra@arrl.net](mailto: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 July 21 through 27, 2022 were 124, 107, 96, 80, 100, 78, and 53, with a mean of 91.1. 10.7 cm flux was 121.7, 114.7, 110.5, 107.1, 102.3, 98.8, and 98, with a mean of 107.6. Estimated planetary A indices were 22, 11, 17, 9, 6, 8, and 9, with a mean of 11.7. Middle latitude A index was 14, 11, 15, 9, 8, 7, and 9, with a mean of 10.4.

### AUGUST PUZZLER

PAUL ATKINS, AI6BB

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

accredited	dummy	modes
airlink	efficiency	ocf
bandwidth	electric	operation
bleeder	electrical	parasitic
center	element	rate
changeover	emissions	rectification
common	energy	reflector
control	equalization	region
coordinated	farad	reliable
coronalhole	flattopping	repeater
crc	flipflop	self
crt	height	single
dec	led	skip
decibel	limiter	transform
dielectric	maximum	wattmeter
	memorybus	

### ANSWER TO JULY'S PUZZLER

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

3<sup>rd</sup> Wednesday of every month

1909 El Camino Real, Redwood City, CA.

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

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 - Oceana HS North Parking Lot
Jul 13th	Pizza Meeting, Round Table at Linda Mar Shopping Center
Aug 10th	Firehouse Meeting
Sep 14th	Firehouse Meeting - 2023 Officer Nominations
Sep 24th-26th	Pacific Coast Fog Fest
Oct 12th	Meeting - LMFS - Review 2023 Slate of Officers
Nov 5th	Dinner Meeting & Election of Officers - Nick's at Rockaway
Nov 6th	Daylight Savings Time Ends
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 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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www.smcready.org  
cert@pacificapolice.org



63 years



of Service

53 years



Affiliation

## 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](http://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	ai6bb@arrl.net
Secretary	Tom Oliver	KJ6OGL	(640) 488-0704	toliver0577@gmail.com
Treasurer/ co-Treasurer	Frank Erbacher Paul Atkins	N6FG AI6BB	(650) 355-4355 (415) 810-9152	<a href="mailto:n6fg@arrl.net">n6fg@arrl.net</a> ai6bb@arrl.net
CLUB STAFF				
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Emergency Services	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
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Website	Paul Atkins R. Scott Sutor	AI6BB KM6SCD	(415) 810-9152	ai6bb@arrl.net

**MEETING  
NOTICE:**



**AUGUST 10, 2022 7:30 PM (FIREHOUSE & ZOOM)  
WATCH FOR INVITATION VIA E-MAIL OR CONTACT  
[CARC\\_INFO@COASTSIDEARC.ORG](mailto:CARC_INFO@COASTSIDEARC.ORG) TO BE ADDED**

## COASTSIDE COMMUNICATOR

EDITOR

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FIRST CLASS

TO: