



THE COASTSIDE COMMUNICATOR

VOL. 53

No. 7 JULY 2021

WWW.COASTSIDEARC.ORG

PIZZA DINNER JULY 14TH

The annual Pizza Dinner Meeting will be held at the Linda Mar Round Table July 14th, 2021. Arrive by 7:00 PM for ordering and socializing, with business meeting at 7:30 PM. It will be nice to see all in person!

PRESIDENT'S COLUMN

Happy Fourth of July! I hope that everyone can celebrate the "good old US of A" this year, any way they see fit! I know I will! So far, I have not heard about our Field Day event, so I hope that it went well, since many club members worked very hard the past few weeks to make it happen. I hope to hear a good report at our next meeting at the Linda Mar Round Table Pizza, and I am really looking forward to seeing everybody in person this time!

73's Dave Lawrence KF6TWW.

FIELD DAY PHOTOS

Please submit Field Day 2021 photos you may wish to share for the Website and Communicator to AI6BB@ARRL.NET.

CARC JUNE 9, 2021 MEETING MINUTES

Call to Order

The June 9, 2021 meeting was called to order at 7:31pm by President Dave Lawrence-KF6TWW on Zoom Video Conference hosted by Jon Lancelle-N6SJF.

Self-introductions

Introductions by members in attendance.

Minutes

Ted Niemiera stated in an email to Frank-N6FG that he was "...the Mover to Adjourn the meeting", and that his call sign was listed incorrectly in the newsletter. S/B K6 not N6. He also noted that his call has changed to W6SY. Motion made by Bill-N6BCT and seconded by Gary-KI6HIG to approve the May minutes as corrected. Motion was passed by unanimous vote of the membership present.

TREASURER'S REPORT

Funds

The Treasurer, Frank Erbacher-N6FG reported. Financial report: None given.

MEMBERSHIP – 1 new renewal

Bills needing approval.

None

Correspondence – Will send insurance certificate to GGNRA for Field Day

COMMITTEE REPORTS**CURRENT REPEATER**

1. Update on status of WA6TOW repeater: Frank-N6FG stated that Mike-WB6JKV will be going up the hill and will check on the status of the antennas. Possibly swap the APRS with the repeater antenna. Casey will send email/message to Frank & Mike requesting what to do.
2. APRS – No report
3. Emergency Services – No report

Replacement Repeater

1. Update on Replacement Repeater progress: See Unfinished Business

FIELD DAY – June 26-27. Truck/Van has been ordered/reserved. Port-a-Poti also ordered. Frank-N6FG needs help getting equipment packed in his van and the rental van. Casey will get pizza and take it up the hill.

FOG FEST - CANCELLED

NEWSLETTER - Published

WEBSITE – June newsletter uploaded.

UNFINISHED BUSINESS

- A. Dave-KF6TWW stated he's not had contact with Roy Brixen-KE6MNJ for picking up the new repeater for setup and testing.

New Business

- A. July 14th – Pizza meeting at Round Table Pizza in the Linda Mar Shopping Center at 7pm
- B. November 20th we will have the Election Dinner at Nick's Restaurant. More info as time gets closer.
- C. It was mentioned about meeting in person at the Linda Mar Fire Station in August. Need approval from the department before meeting and getting access. Frank-N6FG said he would contact North County Fire Authority.

Adjournment

Motion made by Bill-N6BCT and seconded by Gary-KI6HIG to adjourn the meeting at: 8:30p.m. Meeting adjourned.

Present at the Meeting

Officers: President: Dave Lawrence-KF6TWW, Vice-President: Paul Atkins-AI6BB, Secretary: Tom Oliver-KJ6OGL, Treasurer: Frank Erbacher-N6FG

Members: Gary Barnes-KI6HIG, George Salet-KJ6TSX, Ted Niemira-W6SY (Former K6TET), Walt Long-KG6EDY, Bill Lilly-N6BCT, Steve Auston-KN6ORM (new member), Dave Conroy-KM6CPF, Dave Rinck-K6DMR, Casey Villyard-N6TZE, Georgia Grant-KE6KRT, Jon Lancelle-N6SJJ.

Submitted by: Tom Oliver-KJ6OGL, Secretary

NEWS**ARRL Announces**** Partnership with Maglite**

06/21/2021

ARRL, the National Association for Amateur Radio® and **Mag Instrument**, the US manufacturer of the MAGLITE® Flashlight have announced they have formed a partnership based on common interests in equipping people to be prepared for emergencies and to serve their communities in extreme situations such as natural disasters. ARRL members expand the reservoir of trained operators and technicians in radio communications and radio technology, and provide public service through the ARRL Amateur Radio Emergency Service® (ARES®). Maglite is the leading maker of U.S.-manufactured high-quality flashlights that have a deserved reputation for toughness and durability.

"Amateur radio operators, or 'hams,' help people in times of difficulty, often by supporting emergency communications when critical infrastructure is

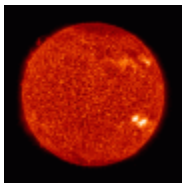
damaged, and by aiding first responders' need to keep connected," said Anthony Maglica, Founder, Owner and CEO of MAG Instrument Inc. "We manufacture a product that has been used in public safety for over 40 years, and we are very supportive of the incredible dedication of radio amateurs, so culturally this is a great alliance for both brands."

"ARRL is delighted that Maglite recognizes the service and skill of ARRL members. This partnership will help us introduce amateur radio to more people," said David Minster, NA2AA, ARRL CEO. Mag Instrument is creating a special laser-engraved Maglite® product **collection** for ARRL, as well as offering their members special pricing on a select line of Maglite gear. In turn, those purchases raise funds to support ARRL's mission. Members can find details at www.arrl.org/benefits and by clicking "Member Discounts" in the left-hand navigation on that page.

Maglite is also promoting a special giveaway in recognition of 2021 ARRL Field Day (no purchase is necessary). Visit Maglite on the web for entry details and **Terms and Conditions** at <https://maglite.com/pages/the-maglite-arrl-2021-field-day-giveaway>.

ARRL, headquartered in Newington, Connecticut, counts the majority of active radio amateurs in the US among its ranks. Since its founding in 1914, ARRL and its members have advanced the art, science, and enjoyment of Amateur Radio.

For more information about ARRL visit www.arrl.org.



The K7RA Solar Update

07/02/2021 ~ Tad Cook, K7RA, Seattle, reports: Solar activity is strong! For the June 24 – July 1 reporting week, the average daily

sunspot number rose from 14 to 34.7, while the average daily solar flux bumped up from 79.3 to 86.9. Both figures represent a dramatic increase in solar activity. The sunspot number last Thursday, June 24, was 56 — above the average of 34.7 and always a good sign.

The planetary A index went from 5.3 to 6.1 over the reporting week, while the average daily middle latitude A index was steady at 6.1.

The predicted solar flux is 94 on July 2 – 6; 90 on July 7 – 8; 85 on July 9 – 11; 82 on July 12 – 14; 80 on July

15 – 18; 82 on July 19; 85 on July 20 – 24; 88 on July 25; 90 on July 26 – 28; 92 on July 29 – August 1; 90 on August 2, and 85 on August 3 – 7.

Predicted planetary A index is 8, 12, 8, 10, and 8 on July 2 – 6; 5 on July 7 – 8; 8 on July 9 – 10; 5, 15, and 12 on July 11 – 13; 5 on July 14 – 20; 8 on July 21; 5 on July 22 – 26; 10 on July 27; 5 on July 28 – 30; 12 on July 31; 5 on August 1 – 4; 8 on August 5 – 6, and 5, 15, and 12 on August 7 – 9.

Here is the geomagnetic activity forecast for July 2 – 29 from F.K. Janda, OK1HH.

The geomagnetic field will be:

- quiet on July 16 – 17, 24 – 25
- quiet to unsettled on July 2 – 3, 6 – 7, 9 – 11, 18, 23, 29
- quiet to active on July 4 – 5, 12, 14 – 15, (19 – 22), 26
- unsettled to active July (8), 13, 27 – 28
- active to disturbed nothing forecast
- Parenthesis means lower probability of activity enhancement.

Jon Jones, N0JK, reports from Kansas (EM28):

"A sporadic-E opening to Europe on 50 MHz on July 1 to the Heartland (Midwest US) on the afternoon of July 1.

"I decoded many Europeans. F6EXV in with a good signal, but difficult getting takers. Finally worked G4PLZ at 1933 UTC. He was my only PSK flag in Europe.

"Even area ops who run kilowatts and big Yagis were having trouble raising Europe, but saw one work F6EXV and possibly EI4DQ. K0TPP (EM48) to the east was having better luck with Europe.

"Here in northeast Kansas, I decoded EA, EI, F, G, and PA2M. EI3KD, EI4DQ had good signals."

K4ZOT reported on June 28 from EM73 near Atlanta:

"I thought you might be interested in this 6-meter DX, which totally caught me by surprise today.

"I have been a 6-meter enthusiast since I received my license in 1964, when I operated a Layette HA-460 10 W 6-meter transceiver. In all this time I have never

worked or heard an African station on 6. I have worked JA several times and other Pacific locations, but never Africa. Much to my total surprise today, June 28, at 1926 UTC, 5T5PA (Mauritania) suddenly popped on the FT8 JTALert Callsigns screen with an audio alert of new DX. Again, to my utter amazement, I worked him on the first call, a distance of 4,241 miles. Not the longest 6-meter DX by far but surprising, at least from this location. I believe he worked one or two other stations, and then he was gone — perhaps only on for 2 or 3 minutes. A wonderful 6-meter DX contact from my station using a five-element Yagi at only 32 feet.

“Six is indeed the ‘Magic Band,’ as it has been for me for 55 years of operation. Best of all, Johannes confirmed the contact in LoTW just a few minutes after we made contact. Thank you, Johannes, a true ham in the best spirit of the hobby.”

KA3JAW reported:

“On Thursday, July 1, at 10:15 AM EDT (1415 UTC), FM DXer Bryce Foster in Mashpee, Massachusetts, received 87.7 RTP Antena-3 Pico da Barrosa, Azores, via two-way Es. The station runs 30 kW vertical polarization. Distance 2,379 air miles. Reception lasted up to 35 minutes with audio identification along with a stream match. This is the first time I heard of a US to Azores link on the FM broadcast band.”

W9NY reported on June 28:

“The propagation on 20 meters between my Dune Acres, Indiana, station and much of Europe and Asiatic Russia beginning last night at 11 PM and continuing for about 2 hours was absolutely amazing. It reminded me of 10 meters at the peak of prior sunspot cycles.

“Around 14.208 I called CQ and worked one station after another, from Finland in the North to Corsica and Greece in the South and all across Russia to several points in Siberia. Many of the signal reports given and received were 20 to 30 dB over S-9. A couple ‘nearly pinned’ the needle on my Icom IC-7610. In fact, I worked many stations running 100 W to simple antennas like a dipole or vertical that were coming in over S-9 and a few stations that were QRP but still producing S-5 to S-7 signals. I have not heard an opening like that in many years, and it was certainly a lot of fun. I probably should have turned on my QRP rig, but I never got around to it.

“Perhaps a harbinger of things to come.

“I did check out 17, 15, 12, 10, and 6, which were all quiet.

“And today there was a fair amount of activity on 10 meters and 6 meters.”

Frank, W3LPL, wrote:

“Propagation through the auroral ovals and polar regions is likely to be mostly normal through Sunday. There is a slight possibility that isolated below-normal intervals may briefly degrade propagation through the auroral ovals and polar regions from midday Saturday through early Sunday.

“We are in the quiet geomagnetic activity season; only about half as many geomagnetically disturbed days occur in June and July compared to the more geomagnetically active equinox seasons.

“Sporadic-E propagation occurs every day during June and July at mid-latitudes in the Northern Hemisphere making long-distance propagation up to 15,000 kilometers (9,300 miles) sporadically available in the 17, 15, 12, 10 and 6 meter bands from sunrise through midnight and occasionally somewhat later.

“The solar flux is likely to be at least 94 through Sunday. Solar active region 2835 has grown to 770 micro-hemispheres (2.3 billion square kilometers, four times the surface area of the Earth), almost as large as the active region that significantly improved HF propagation during late November 2020. Region 2835 is significantly improving HF propagation on 30 and 20 meters during late afternoon, at night, and during the early morning hours, and 17- and 15-meter propagation during the day through early evening. Active regions 2836 and 2837 are slowly and quietly decaying and are having no effect on HF propagation. See this [Solar Dynamics Observatory \(SDO\) image](#) from July 2 @ 1346 UTC.

“160- and 80-meter propagation from North America to VK/ZL and the South Pacific is likely to be seasonably normal through Sunday.

“40-meter short-path propagation to south Asia is likely to be mostly normal at about 0015 UTC through Sunday. 40-meter short path propagation from North America to East Asia after about 0930 UTC is likely to be mostly normal with a slight possibility of isolated below-normal intervals on Saturday.

“30-meter propagation through the auroral ovals and polar regions is likely to be mostly normal, with a slight possibility of isolated below-normal intervals late

Saturday. 30 meter propagation is always significantly degraded within a few hours of local noon due to E-region blanketing of long-distance F2 propagation.

“30-meter nighttime, long-distance propagation in the Northern Hemisphere is likely to improve due to increased ionizing solar radiation in the northern high-latitude regions caused by increased sunspot activity, higher solar elevation angles, and much shorter nights with no source of ionizing solar radiation.

“20-meter daytime and evening propagation through the auroral ovals and polar regions is likely to be mostly normal with a slight possibility of isolated below-normal intervals late Saturday.

“20-meter northern transpolar propagation within a few hours of sunrise and sunset is improving with increased solar ionizing radiation on the northern polar region caused by increased sunspot activity and high solar elevation angles 24 hours per day during the midnight sun season. 20 meter long distance propagation is significantly degraded from mid-morning through late afternoon at low and mid-latitudes in the Northern Hemisphere by F1 region midday blanketing of low-angle propagation during the summer.

“20-meter late afternoon, nighttime and early morning long distance propagation in the Northern Hemisphere is likely to improve, due to increased ionizing solar radiation in the northern high-latitude regions, caused by increasing sunspot activity, higher solar elevation angles, and much shorter nights with no source of ionizing solar radiation.

“17- and 15-meter daytime long-distance propagation in the Northern Hemisphere is likely to improve due to increased ionizing solar radiation in the northern high-latitude regions caused by increasing sunspot activity, high solar elevation angles, and long days.

“17-, 15-, 12-, 10-, and 6-meter sporadic-E propagation up to 15,000 km (9,300 miles) is likely to be sporadically available from sunrise through midnight and occasionally later through late July.

“Geomagnetic disturbances caused by coronal hole high-speed stream effects are likely to remain mostly brief, minor, and somewhat less frequent at least through late 2021. The southward-oriented (–Bz) component of the IMF plays a crucial, but unpredictable, role in triggering all geomagnetic storms. Brief minor to moderate geomagnetic storms may be gradually triggered when the IMF persists in a southward orientation (–Bz) with enhanced IMF field

strength for several hours coincident with the effects of an Earth-directed coronal hole high-speed stream. More frequent, longer duration, minor-to-severe geomagnetic storms may be triggered suddenly and unpredictably when the IMF persists in a southward orientation (–Bz) with enhanced IMF field strength for several hours or more coincident with the effects of an Earth-directed fast CME.

“There is a slight possibility that Earth-directed effects of a weak CME and continuing weak coronal hole high-speed stream effects may slightly to moderately enhance IMF field strength, solar wind speed near Earth, and geomagnetic activity. If the weak CME is geo-effective, it may slightly degrade HF propagation through the auroral ovals from midday Saturday through early Sunday. Geomagnetic storms are not likely through Sunday. There is a slight possibility of an M-class solar flare from Friday through Sunday, but its possible effects on HF propagation are likely to be brief and minor.

“Mid-latitude Northern Hemisphere sunset is now 77 minutes later and day length is 163 minutes longer than it was on March 20. Day length and solar elevation angle in the northern polar region are slowly declining through mid-July, due to gradually waning summer solstice effects.”

Sunspot numbers for June 24 – 30 were 11, 25, 16, 32, 50, 56, and 53, with a mean of 34.7. The 10.7-centimeter flux was 80.6, 83.4, 82.4, 87, 88.6, 92.5, and 94.1, with a mean of 86.9. Estimated planetary A indices were 5, 7, 4, 4, 4, 5, and 14, with a mean of 6.1. Middle latitude A index was 6, 8, 5, 4, 4, 5, and 11, with a mean of 6.1.

For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) “What the Numbers Mean...,” and check out [this propagation page](#).

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

[Instructions](#) for starting or ending email distribution of ARRL bulletins are on the ARRL website.

[Share](#) your reports and observations.

[Share](#) your reports and observation.

JULY PUZZLER

PAUL ATKINS, AI6BB

D M Y F O R W A R D V O L T A G E H O O
 O G N I H C T I W S T O H L A U T R I V
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 B L A N G I S K F E D I R E C T S U N I
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| <i>analyzer</i> | <i>fet</i> | <i>paddle</i> |
| <i>battery</i> | <i>force</i> | <i>parasitic</i> |
| <i>bridge</i> | <i>forwardvoltage</i> | <i>ratio</i> |
| <i>buffer</i> | <i>gfc</i> | <i>regulation</i> |
| <i>calling</i> | <i>hotswitching</i> | <i>resistor</i> |
| <i>changeover</i> | <i>indices</i> | <i>signal</i> |
| <i>clipping</i> | <i>ion</i> | <i>skip</i> |
| <i>clock</i> | <i>ionospheric</i> | <i>smeter</i> |
| <i>coordinator</i> | <i>itu</i> | <i>stacking</i> |
| <i>counter</i> | <i>linear</i> | <i>timeout</i> |
| <i>cycle</i> | <i>logic</i> | <i>transformer</i> |
| <i>dielectric</i> | <i>loss</i> | <i>virtual</i> |
| <i>direct</i> | <i>mosfet</i> | <i>voice</i> |
| <i>doublet</i> | <i>omnidirectional</i> | <i>vox</i> |
| <i>earth</i> | <i>operation</i> | <i>waterfall</i> |
| | <i>oscillate</i> | |

ANSWER TO JUNE'S PUZZLER

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

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 Hofbrau

3rd Wednesday of every month

1909 El Camino Real, Redwood City, CA.

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

ASVRO Silicon Valley Electronics Flea Market

Please see the website below for up-to-date information

<http://www.electronicfleamarket.com/schedule>

DATE	EVENT
Jan 13th	Zoom Meeting ~ 2021 Agenda Planning
Feb 10th	Zoom Meeting ~ 2021 Agenda Final
Mar 10th	Zoom Meeting
Mar 14th	Daylight Savings Time Starts
Apr 14th	Zoom Meeting
May 12th	Zoom Meeting ~ Field Day Planning
Jun 9th	Zoom Meeting ~ Final Field Day Planning
Jun 25 th -27th	Field Day ~ Details TBD
Jul 14th	Pizza Dinner Meeting – Linda Mar Round Table 7:00 PM Social 7:30 PM Meeting
Aug 11th	Regular Meeting
Sep 9th	Regular Meeting
Oct 13th	Regular Meeting, 2022 Officer Nomination
Nov 7th	Daylight Savings Time Ends
Nov 10th	Regular Meeting
Nov 20th	2022 Election Dinner, Nick's Restaurant
Dec 8th	Regular Holiday Meeting

Meetings are planned to be resumed at the Linda Mar Fire Station on the 2nd Wednesday of each month after June 15th pending approval of North County Fire Authority.



www.smcready.org
cert@pacificapolice.org



62 years



of Service

52 years



Affiliation

CARC, P.O. Box 1106, Pacifica, CA 94044



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 Net

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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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 audiostickerbur.net.

CLUB OFFICERS				
Office	Name	Call	Phone	E-Mail Address
President	Dave Lawrence	KF6TWW	(650) 595-2827	kf6tww@gmail.com
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Website	Paul Atkins	AI6BB	(415) 810-9152	ai6bb@arrl.net
	R. Scott Sutor	KM6SCD		

**MEETING
NOTICE:**



JUNE 9, 2021 7:30 PM
WATCH FOR INVITATION VIA E-MAIL OR CONTACT
CARC.INFO@COASTSIDEARC.ORG TO BE ADDED.

COASTSIDE COMMUNICATOR

EDITOR
P.O. BOX 1106
PACIFICA, CA 94044

FIRST CLASS

TO: