



THE COASTSIDE COMMUNICATOR

VOL. 52, No. 2

2020

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

Power Power Power!! We have AC power up on the hill, and TOW is back on the air! Congrats to all those who helped get this going. I think it just goes to show how much better the new equipment will be when it all gets finally installed, and then we'll be able to ride out some of these outages without being so silent for so long.

Looks like we'll have a full schedule of meetings for the year, but if we want to have any extra club activities, we're looking for ideas, so bring me your suggestions or send them in. Next meeting is Feb 12 2020, so hope to see you there!

73's
Dave Lawrence, KF6TWW.



JANUARY MINUTES

CALL TO ORDER

The January 8, 2020 meeting was called to order at 7:30pm by: President Dave Lawrence-KF6TWW, at the Linda Mar Fire House in Pacifica.

Self-introductions
Introductions by members in attendance.

Minutes

Motion made by Mike Herbert-WB6JKV and seconded by Frank Erbacher-N6FG to approve the December minutes as corrected in the 12/11/2019 printed minutes. Change verbiage "Paul went through the process of splitting websites with Scott Mercer-KI6SEJ" to "Paul went through the process of splitting websites from Scott

Mercer-KI6SEJ". Scott Sutor-KM6SCD is our Back-up Webmaster. Motion was passed by unanimous vote of the membership present.

TREASURER'S REPORT

The Treasurer, Frank Erbacher-N6FG reported. CARC donated \$1,000 to CARLA to assist in the replacement of repeaters and equipment lost in the fires near Redding and Mt. Shasta. Mike-WB6JKV asked Frank if he would publish the response he received from Tom-N6MVT in the newsletter. Membership dues now due. Frank will have 2019 year-end summary next meeting.

COMMITTEE REPORTS

CURRENT REPEATER

1. Update on status of WA6TOW repeater from Dave Rinck-K6DMR: Repeater currently down. A tree came down and took out the power LINE

Dave-KF6TWW is asking what is to be done/what will be done with current repeater. Summarized comments made by Casey at last meeting. Per Mike Herbert-WB6JKV the line is to be replaced tomorrow, 1/09/2020. Dave Rinck-K6DMR will remotely (if possible) bring the repeater back up once power is restored. He is looking into replacement batteries and chargers.

2. APRS – No Report

3. Emergency Services – No Report

Replacement Repeater

1. Update on Repeater Replacement Committee progress from Roy Brixen-KE6MNJ: No Report

FIELD DAY – 27th & 28th, 2020

FOG FEST – 26th & 27th, 2020

NEWSLETTER – Newsletter did not get published.
Dave to get it out within the week.

WEBSITE – Up and running. Need 2020 Net Control assignments and Calendar of Events.

Net Script - Using approved script.

UNFINISHED BUSINESS

A. None

NEW CURRENT REPEATER

1. Update on status of WA6TOW repeater from Dave Rinck-K6DMR: Repeater currently down. A tree came down and took out the power line. Dave-KF6TWW is asking what is to be done/what will be done with current repeater. Summarized comments made by Casey at last meeting. Per Mike Herbert-WB6JKV the line is to be replaced tomorrow, 1/09/2020. Dave Rinck-K6DMR will remotely (if possible) bring the repeater back up once power is restored. He is looking into replacement batteries and chargers.

2. APRS – No Report

3. Emergency Services – No Report

Replacement Repeater

1. Update on Repeater Replacement Committee progress from Roy Brixen-KE6MNJ: No Report

FIELD DAY – 27th & 28th, 2020

FOG FEST – 26th & 27th, 2020

NEWSLETTER – Newsletter did not get published.
Dave to get it out within the week.

WEBSITE – Up and running. Need 2020 Net Control assignments and Calendar of Events.

Net Script - Using approved script.

NEW BUSINESS

A. Calendar of Events: Members present, by show of hands, said they wanted to go back to Nick's at Rockaway. Date is November 14th. Frank to make reservations this week. CARC Net Control Sign-up – Filled in. If anyone wants to run the net, let Dave-KF6TWW know, and we'll get you on the schedule. If there is an activity (outing) you think the club would like to participate in, let Dave know. Calendar will be finalized at the February meeting and published on the website.

ADJOURNMENT

Motion made by Walt Long-KG6EDY and seconded by Mike Herbert-WB6JKV to adjourn the meeting at: 8:40p.m. Meeting adjourned.

Present at the Meeting

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

Members: Ralph Kugler-KC6YDH, Steve Paganelli-K6YUA, Rudy Gaoay-N6DOZ, Pete Wanger-WA6ECH, Mike Herbert-WB6JKV, Walt Long-KG6EDY, Victor Munoz-KB6LGZ, Scott Gillette-KN6GQZ, Dave Rinck-K6DMR

Submitted by: Tom Oliver-KJ6OGL, Secretary

ARRL LETTER

RRL to Argue for Continued Access to 3 GHz Spectrum as FCC Sets Comment Deadlines

At its annual meeting on January 17 - 18, the ARRL Board of Directors instructed Washington Counsel Dave Siddall, K3ZJ, to prepare a strong response to protect amateur access to spectrum in the 3 GHz range. In its Notice of Proposed Rulemaking (NPRM) in WT Docket 19-348, the FCC proposed to relocate all non-federal operations, including amateur uses, to spectrum outside the 3.3 - 3.55 GHz band.

The ARRL Board met January 17 - 18 in Windsor, Connecticut. [Michelle Patnode, W3MVP, photo] The Commission anticipates auctioning this spectrum to expand commercial use of 5G cellular and wireless

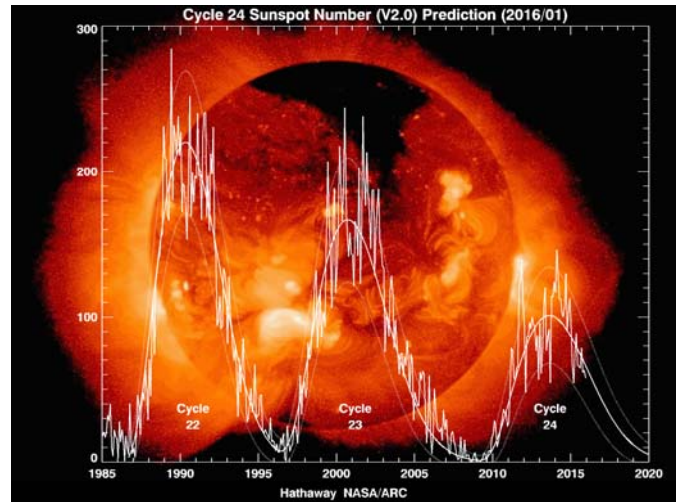
broadband services, if agreement can be reached on relocation of -- or sharing with -- the federal incumbents that operate in the same band. Publication of the NPRM in the Federal Register on January 22 established deadlines of February 21 for comments and March 23 for reply comments.

The FCC has requested comment on the uses radio amateurs make of the spectrum and appropriate relocation options. Complicating matters is the fact that radio amateurs must consider the possibility that the immediately adjacent 3.1 - 3.3 GHz band is included in the spectrum that Congress has identified for similar study. FCC Commissioner Michael O'Rielly, in a December statement, referenced the fact that the lower band may also be considered for non-federal reallocation, potentially limiting relocation possibilities.

Amateurs make substantial use of the 3.3 - 3.5 GHz band that would be hard to replicate elsewhere, and they had filed more than 150 comments before the designated comment period even began. Among users looking at options are those who use this spectrum for Earth-Moon-Earth (moonbounce) communication, mesh networks, experiments with communication over long distances, radiosport, and amateur television. A portion of the band is also designated for use by amateur satellites in ITU Regions 2 and 3 (the Americas and Asia/Pacific).

A report is due by March 23 from the National Telecommunications and Information Administration (NTIA) evaluating the feasibility of having federal users share all or part of the 3.1 - 3.55 GHz band with commercial wireless services. This report is required by the Making Opportunities for Broadband Investment and Limiting Excessive and Needless Obstacles to Wireless (MOBILE NOW) Act. The results of the NTIA report will impact how much spectrum ultimately may be re-allocated for auction to wireless providers.

ARRL urges amateurs who comment to inform the FCC about the uses they make of the 3 GHz spectrum. Short comments and longer statements may be filed electronically. Visit the FCC "How to Comment on FCC Proceedings" page for more information. Commenters should reference WT Docket 19-348.



The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: This week, we finally saw the return of sunspots over 6 of the last 7 days, January 24 - 29. The average daily sunspot number rose from 0 to 11.1, while average daily solar flux jumped from 71.2 to 72.9.

Geomagnetic indicators remained very quiet, signaling continued great conditions on 160 and 80 meters. Predicted solar flux over the next month and a half is 74 on January 30 - February 2; 70 on February 3 - 6; 71 on February 7 - 13; 72 on February 14 - 20; 73 on February 21 - 22; 74 on February 23 - 29; 72 on March 1 - 3; 71 on March 4 - 11, and 72 on March 12 - 14.

Predicted planetary A index is 8 on January 30; 5 on January 31 - February 24; 10 on February 25 - 26; 5 on February 27 - 29; 8 on March 1 - 3, and 5 on March 4 - 14.

On January 27, the total sunspot area was 100 millionth of the visible solar disc. The total sunspot area hasn't been larger or even near that size since May 18, 2019, when the area was 140 millionth of the visible solar disk.

Sunspot numbers for January 23 - 29 were 0, 12, 14, 18, 12, 11, and 11, with a mean of 11.1. The 10.7-centimeter flux was 70.8, 71, 72.7, 74.7, 72.9, 74.2, and 74.3, with a mean of 72.9. Estimated planetary A indices were 5, 3, 3, 4, 3, 5, and 9, with a mean of 4.6. Middle latitude A index was 3, 1, 3, 2, 2, 4, and 6, with a mean of 3.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, visit the ARRL Technical Information Service, read "What the Numbers Mean...", and check out K9LA's Propagation Page.

A propagation bulletin archive is available. Monthly charts offer propagation projections between the US and a dozen DX locations.

ARRL to Argue for Continued Access to 3 GHz Spectrum as FCC Sets Comment Deadlines

At its annual meeting on January 17 - 18, the ARRL Board of Directors instructed Washington Counsel Dave Siddall, K3ZJ, to prepare a strong response to protect amateur access to spectrum in the 3 GHz range. In its Notice of Proposed Rulemaking (NPRM) in WT Docket 19-348, the FCC proposed to relocate all non-federal operations, including amateur uses, to spectrum outside the 3.3 - 3.55 GHz band.

The ARRL Board met January 17 - 18 in Windsor, Connecticut. [Michelle Patnode, W3MVP, photo]

The Commission anticipates auctioning this spectrum to expand commercial use of 5G cellular and wireless broadband services, if agreement can be reached on relocation of -- or sharing with -- the federal incumbents that operate in the same band. Publication of the NPRM in the Federal Register on January 22 established deadlines of February 21 for comments and March 23 for reply comments.

The FCC has requested comment on the uses radio amateurs make of the spectrum and appropriate relocation options. Complicating matters is the fact that radio amateurs must consider the possibility that the immediately adjacent 3.1 - 3.3 GHz band is included in the spectrum that Congress has identified for similar study. FCC Commissioner Michael O'Rielly, in a December statement, referenced the fact that the lower band may also be considered for non-federal reallocation, potentially limiting relocation possibilities.

Amateurs make substantial use of the 3.3 - 3.5 GHz band that would be hard to replicate elsewhere, and they had filed more than 150 comments before the designated comment period even began. Among users looking at options are those who use this spectrum for Earth-Moon-Earth (moonbounce) communication, mesh networks, experiments with communication over long distances, radiosport, and amateur television. A portion of the band

is also designated for use by amateur satellites in ITU Regions 2 and 3 (the Americas and Asia/Pacific).

A report is due by March 23 from the National Telecommunications and Information Administration (NTIA) evaluating the feasibility of having federal users share all or part of the 3.1 - 3.55 GHz band with commercial wireless services. This report is required by the Making Opportunities for Broadband Investment and Limiting Excessive and Needless Obstacles to Wireless (MOBILE NOW) Act. The results of the NTIA report will impact how much spectrum ultimately may be re-allocated for auction to wireless providers.

ARRL urges amateurs who comment to inform the FCC about the uses they make of the 3 GHz spectrum. Short comments and longer statements may be filed electronically. Visit the FCC "How to Comment on FCC Proceedings" page for more information. Commenters should reference WT Docket 19-348.

ARRL Expands Its Roster of Online Discussion Groups

ARRL's Committee on Communication with Members has launched three new online discussion forums as part of its ongoing efforts to enhance and improve communication between ARRL leadership and members or prospective members. The new forums, which focus on antenna law, regulatory issues, and support for new amateur radio licensees, will go live on Thursday, January 30, at 0400 UTC.

The committee launched the three new discussion groups on the basis of requests from the amateur radio community, to support ARRL's efforts to provide more resources for beginner-to-intermediate operators.

The online discussion program launched last fall with three forums -- contesting, awards, and the International Amateur Radio Union (IARU) -- all open to the amateur radio community. The program was based on the success of the online ARRL-LoTW Group, which, for the past several years, has served to answer questions and generate discussions about ways to improve the service.

Undersea Expedition Planned to Retrieve Titanic's Radio Gear

The company with sole rights to salvage artifacts from the RMS *Titanic* has gone to court to gain

permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a *Washington Post* Undersea Expedition Planned to Retrieve Titanic's Radio Gear

The company with sole rights to salvage artifacts from the RMS Titanic has gone to court to gain permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a *Washington Post* article reports. The Titanic sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS -- which Phillips also used -- as the universal distress call. The passenger liner RMS *Carpathia* responded and rescued

705 of the passengers

As might be expected, the deteriorating Marconi equipment is in poor

shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the Titanic, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits



A recreation of the *Titanic* radio room.

on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS Titanic, Inc. of Atlanta, Georgia, which said that it hopes to restore the Titanic radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment. reports. The *Titanic* sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS -- which Phillips also used -- as the universal distress call. The passenger liner RMS *Carpathia* responded and rescued 705 of the passengers.

As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the *Titanic*, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS Titanic, Inc. of Atlanta, Georgia, which said that it hopes to restore the *Titanic* radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment.

President Signs PIRATE Act to Combat Illegal Broadcasting

On January 24, President Donald Trump signed into law the "Preventing Illegal Radio Abuse Through Enforcement Act," or the PIRATE Act. The measure, which amends the Communications Act of 1934, authorizes enhanced penalties for violators. Under the new law, pirate radio broadcasters would be subject to a fine of not more than \$2 million, and violators could be fined up to \$100,000 for each day during which an offense occurs. The new law stipulates that the FCC "shall not decrease or diminish the regular enforcement efforts targeted to pirate radio broadcast stations for other times of the year."

The FCC is to submit to the House Committee on Energy and Commerce and the Senate Committee on Commerce, Science, and Transportation a report summarizing the implementation of this section and associated enforcement activities for the previous fiscal year. The new law also requires "annual sweeps," during which FCC personnel will be assigned to "focus specific and sustained attention on the elimination of pirate radio broadcasting within the top five radio markets identified as prevalent for such broadcasts." The Commission also "shall conduct monitoring sweeps to ascertain whether the pirate radio broadcasting identified by enforcement sweeps is continuing and whether additional pirate radio broadcasting is occurring."

Under the new law, the FCC will change its rules so that it proceeds directly to issuance of a Notice of Apparent Liability (NAL) without first issuing a Notice of Unlicensed Operation (NOUO).

The FCC will develop and publish a database of all licensed AM and FM broadcasters, accessible directly from the FCC home page. The FCC is also required to publish a list of "all entities that have received a Notice of Unlicensed Operation, Notice of Apparent Liability, or forfeiture order," as well as "each entity...operating without a Commission license or authorization."

The law defines pirate radio broadcasting as transmitting within the AM and FM bands without an FCC license, but excluding unlicensed operations in compliance with Part 15.

Sunnyvale VEC Exam Sessions

1. Fee=\$15.00 Cash
2. Walk-ins only, No pre-registration.
3. Starting time 10:30 AM.
4. Cut-off-time, 11:00 AM.
5. 408-255-9000, 24 Hour hot line

Feb. 08, Sunnyvale

Mar. 14, Sunnyvale

Apr. 11, Sunnyvale

May 09, Sunnyvale

Jun. 13, Sunnyvale

Baeers Exam Sessions

The next session will be held in Redwood City

CARC MEETING/EVENT SCHEDULE

Jan 8th	2020 Agenda Planning, LM Fire Station
Feb 12th	Agenda Final
Mar 8th	Daylight Savings Time Begins
Mar 11th	LM Round Table Pizza 1400hrs
Apr 8th	LM Fire
Apr 26th	Dream Machines, El Granada
May 13th	Field Day Planning Mtg, LM Fire Station
May 30th	Devils Slide Ride, PARCA Bike Event
Jun 10th	Field Day Planning Mtg, LM Fire Station
Jun 27-28	CARC Field Day, Sweeney Ridge
Jul 8th	Field Day Wrap-Up Mtg, LM Fire Station
Aug 12th	Back to School Night LM Fire Station
Sept 9th	LM Fire Station
Sept 26-27	Pacific Coast Fog Fest, Pacifica
Oct 14th	2020 Officer Nomination , LM Fire Station
Nov 14th	Election Dinner
Dec 9th	Holiday Potluck Dinner Meeting, LM Fire

? to be determined # updated ---- canceled * tentative date



www.smcready.org
cert@pacificapolice.org



In Memoriam



Roger G. Spindler-WA6AFT/SK



THE COASTSIDE COASTSIDE AMATEUR RADIO CLUB

The Coastsides 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 Coastsides 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

Permission may be granted by the editor to reproduce material of this publication. Credit must be given to the author, the Coastsides Communicator, and one copy of the reproduced article is sent to the editor for approval.

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

60 Years



of Service

50 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 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

7:00-7:30 AM on WA6TOW
146.925 MHz, PL 114.8
Knights of the Megahertz Net



CLUB OFFICERS			
Office	Name	Call	Phone
President	Dave Lawrence	KF6TWW	(650) 992-9491
V. President	Paul Atkins	AI6BB	(415) 810-91520
Secretary	Tom Oliver	KG6OGL	(650) 488-0704
Treasurer	Frank Erbacher	N6FG	(650) 355-4355
CLUB STAFF			
Control Operator	David Rinck	K6DMR	(650) 355-1778
Emergency Services	Frank Erbacher	N6FG	(650) 355-4355
Field Day	Frank Erbacher	N6FG	(650) 355-4355
Membership	Frank Erbacher	N6FG	(650) 355-4355
Newsletter Editor	David Rinck	K6DMR	(650) 355-1778
Newsletter Publisher	Frank Erbacher	N6FG	(650) 355-4355
Station Technician	Michael Herbert	WB6JKV	(650) 355-6541
Trustee of Club Call	David Rinck	K6DMR	(650) 355-1778
Website	Paul Atkins	AI6BB	(415) 810-91520

MEETING

2020 Planning

COASTSIDE COMMUNICATOR

DAVID RINCK, EDITOR
P.O. BOX 1106
PACIFICA, CA 94044

FIRST CLASS

TO: