



Cathay September 2017

www.cathayradio.org

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Mission: The Cathay Amateur Radio Club is basically an active social club of Ham Radio Operators and their spouses. We support local community requests for HAM emergency communications. Several of us are trained in CPR/ First Aid and are involved with community disaster preparedness.

Monday Night Net Time: 9 PM Local Time/PST,

~~Frequencies: 146.67MHz - 600KHz PL85.4 and 442.70 +5MHz PL 173.8. The repeaters are linked only during the CARC Monday night net. Update: Link to repeater 442.70 is currently not active until further notice.~~

QSY Change to transmission on another frequency / Repeater:

Repeater: WB6TCS - RX 147.210, TX 147.810, Offset +0.6 MHz, CTSS/Tone 100 PL Hz
The CARC Monday night net is the best way to find out the latest club news.

All check-ins are welcome.

Message from the President: George Chong, W6BUR

Hello CARC Members and Friends;

As many of know our normal Monday Night Nets using W6BUR Repeater was running into too much interference. Denis L. Moore – WB6TCS has come to our rescue and has generously allowed the CARC club to use his repeater: WB6TCS for our Monday night nets.

Until further notice, our Monday night nets will use Denis L. Moore's 2 meter repeater

Repeater: WB6TCS

Location: Oakland, Oakland Hills County: Alameda State: California

RX 147.210 TX 147.810 Offset +0.6 MHz CTSS/Tone 100 PL Hz

I hope you all enjoyed this recent solar eclipse, 9am – 11:37 am PT Monday August 21, 2017. The heavy overcast in the San Francisco Bay Area allowed most folks to look directly at the 76% partial solar eclipse without harm to their eyesight.



Eclipse as seen in San Francisco Bay area

Our prayers go out to the victims of tropical storm Harvey 2017 that has brought wide spread flooding in south eastern Texas. It is a reminder that we HAMs are an important component in our local community in times of disaster, so please keep your batteries charged and radios at the ready.

What Happens To Radio Waves During Eclipse Introduction

Bart Lee describes his radio experiments conducted during this recent solar eclipse, Monday August 21, 2017. Please read on in this newsletter.

HAM Tech Session Introduction

As stated in last month's newsletter: More details about the HAM Tech Session are in this newsletter.

Please make sure you reserve 12 noon on Saturday September 9, 2017 for an interesting talk by special guest presenter; Charlie Morrin - KI6FX on Digital Mobile Radios (DMR). It will be a fun free lunch, learning session and very nice raffle that you don't want to miss special event.

CARC Final Wrap-up News

I wish to thank our CARC members that set aside their valuable time to participate in our Monday night's nets.

Chat sub s'em to all you CARC members! - George W6BUR.

Public Service Announcements

HAM CRAM / HAM Licensing

For upcoming HAM Licensing locations please refer to:
<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

Auxiliary Communications Service (ACS)

The Auxiliary Communications Service (ACS) was organized by the San Francisco Office of Emergency Services (OES) following the 1989 Loma Prieta Earthquake to support the communications needs of the City and County of San Francisco when responding to emergencies and special events.

The Auxiliary Communications Service holds General Meetings on the third Tuesday of each month at the San Francisco Emergency Operations Center, 1011 Turk Street (between Gough Street and Laguna Street), from 1900 hours to 2100 hours local time. All interested persons are welcome to attend.

The ACS Net begins at 1930 hours (7:30 p.m.) local time each Thursday evening, on the WA6GG repeater at 442.050 MHz, positive offset, tone 127.3 Hz. The purpose of this net is to practice Net Control skills, practice checking in with deployment status in a formal net, and to share information regarding upcoming ACS events. Guests are welcome to check in. ACS Members should perform Net Control duty on a regular basis. On the second Thursday of each month, the net will be conducted on the output frequency of the WA6GG repeater, 442.050 MHz no offset, tone 127.3 Hz, simplex.

For more information, please attend an ACS meeting or check in on a net, or call 415-558-2717.

Upcoming meetings: Tuesday 7pm, Sept 19, 2017
 Tuesday 7pm, Oct 17, 2017
 Tuesday 7pm, Nov 21, 2017

Gilbert Gin (KJ6HKD)

Free Disaster Preparedness Classes In Oakland:

<http://www.oaklandnet.com/fire/core/index2.html>

CORE is a free training program for individuals, neighborhood groups and community-based organizations in Oakland. The underlying premise is that a major disaster will overwhelm first responders, leaving many citizens on their own for the first 72 hours or longer after the emergency.

If you have questions about the recertification process, you may contact the CORE Coordinator at 510-238-6351 or core@oaklandnet.com.

Free Disaster Preparedness Classes In San Francisco – NERT Taught by San Francisco Fire Department (SFFD).

<http://sf-fire.org/calendar-special-events>

Upcoming events

September

13 Wednesday 6:30 – 8:30 pm NERT Quarterly Meeting. All NERTs are welcome to this quarterly meeting of NERT covering program updates, networking and sharing team best practices and a skill review. Coordinators encouraged to attend.

23 Saturday 8:30 am – 12 pm NERT Staging Area Drill. In class 5 you learned the basics of the NERT response. This drill is an opportunity to expand on the class and put the skills to test in this staging area drill. The drill focuses on practicing the ICS roles, incident management and the flow of communication in the staging area and out to the Battalion Stations. Dress appropriately in your NERT response gear, safety shoes and plan for the weather. Bring NERT ID. This drill is for graduates of the San Francisco

NERT program. We are meeting in The Panhandle park, on the north side of Oak St near Masonic Ave.

SVP to sffdnerf@sfgov.org or call 415-970-2024 to register.

Visit www.sfgov.org/sffdnerf to learn more about the training, other locations, and register on line. Upcoming Special NERT Events.

San Francisco Police Department: Auxiliary Law Enforcement Response Team (ALERT)

The Auxiliary Law Enforcement Response Team (ALERT) is a citizen disaster preparedness program designed. The ALERT program is for volunteers 16 years of age or older, who live, work, or attend high school in San Francisco.

Graduates of the San Francisco Police Activities League (P.A.L) Law Enforcement Cadet Academy are also eligible to join.

ALERT volunteers will first complete the Fire Department's Neighborhood Emergency Response Team (NERT) (www.sfgov.org/sfnert) training and then graduate into an 8 hour Police Department course specifically designed for ALERT team members.

ALERT members will work closely with full-time and/or Reserve Police Officers in the event they are deployed after a disaster. The Basic ALERT volunteer will have no law enforcement powers other than those available to all citizens.

SFPD ALERT Training

The next SFPD ALERT training class has been scheduled for Saturday, Sept 9, 2017. The class will be held at the San Francisco Police Academy, in the parking lot bungalow, from 8am-5pm (one hour lunch break).

IMPORTANT- All participants must complete the background interview process in order to be eligible to attend the ALERT training class.

Eligible ALERT participants may register for a training class by contacting the ALERT Program Coordinator, Mark Hernandez, at sfpdalrt@sfgov.org, or by telephone at 415-401-4615.

SFPD ALERT Practice/Training Drill

All active/trained ALERT members are asked to join us for our next training drill, scheduled for an evening on 7:00pm – 10:30pm Saturday November 4, 2017. Details will be emailed to active ALERT members, prior to the date of the exercise. Participation

is not required, but strongly encouraged.

For more information on the San Francisco Police Department ALERT Program, email us at sfpdalert@sfgov.org, or call Sergeant Mark Hernandez (SFPD, Ret.), SFPD ALERT Program Coordinator, at (415) 401-4615.

For additional information on the web please refer to:

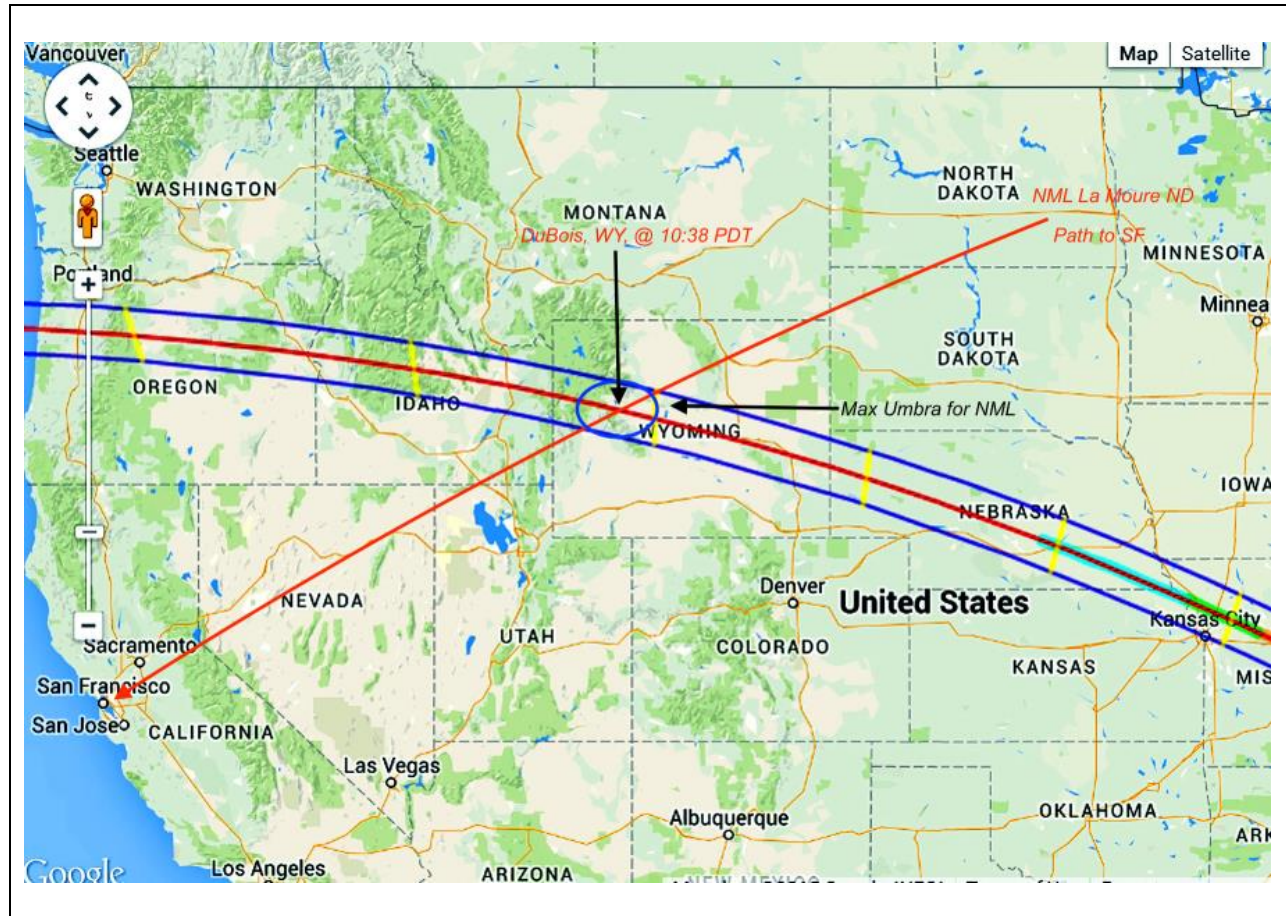
<http://sf-police.org/index.aspx?page=4019>

What Happens With Radio Waves During Solar Eclipse

August 21, 2017

By Bart Lee

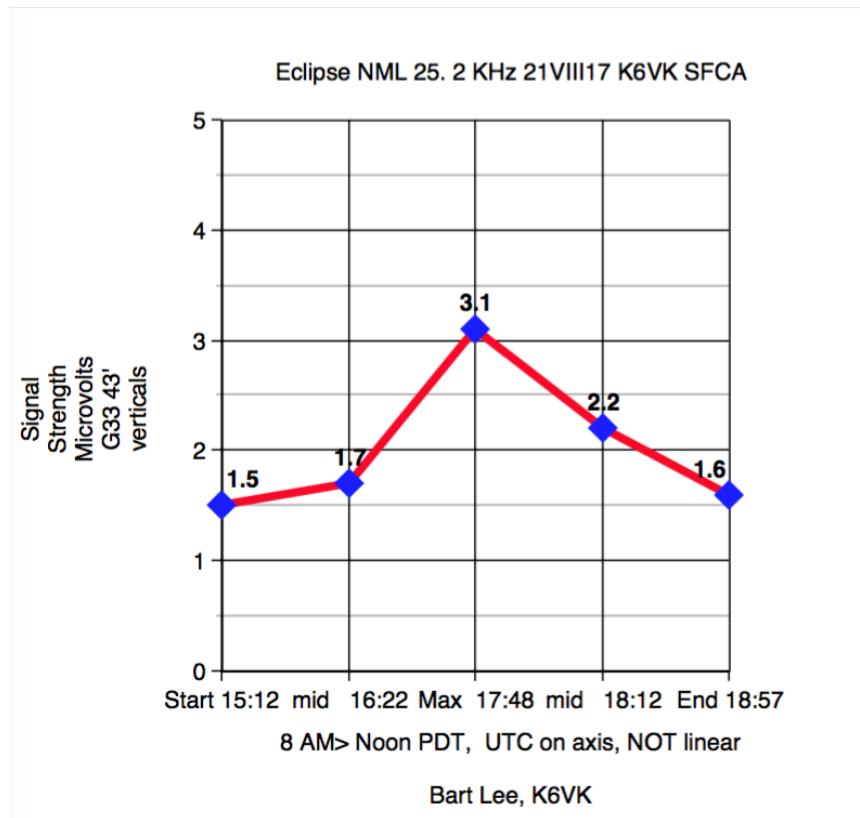
As one of several Eclipsians at the California Historical Radio Society, at K6VK I monitored and recorded the Navy VLF station in North Dakota (NML on 25.2 KHz) from Walnut Creek.



At the time its signal crossed the path of the total eclipse (over Wyoming about 10:40 AM PDT), the signal doubled.

Two 43 foot vertical antennas supplied the signal to the WinRadio G33 SDR running on a Windows 10 HP laptop.

I recorded the signals with an iPhone running time lapse video.



73 de Bart, K6VK ##

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Bart Lee,
Attorney at Law

HAM Tech Session by Edison Fong

Host: Edison Fong

Time: Saturday, September 9, 2017. Right after the DeAnza Swap meet – 12 noon – 4PM

Topic: DMR Radio – talk to world from your hand held – Charlie Morrin KI6FXY

Place: 1163 Quince Ave. Sunnyvale, 408-245-8210

Menu - lasagna, pizza, salad, drinks, and chips. Chocolate mousse cake for dessert

Optional – bring a snack to share

Cost: FREE (sponsored by the Cathay Radio Club) - Raffle Tickets: \$5 each

Grand Prize - HP i5 laptop – 4GB ram, 500 GB harddrive , Windows 10

Other prizes – Baofeng UV5, flashlights, DVM

Directions: If you are coming from the DeAnza Flea Market, just head North on Stelling Rd. Go 2 miles, past Homestead Road, past Fremont Ave. (Stelling Rd. will change names to Hollenbeck Ave. after you cross Homestead Rd.) After Fremont Ave., watch for the first signal light which is Torrington, make a left. Go one block and you will run into Quince Ave. We are at 1163 Quince Ave. I will monitor 146.52 MHz if anyone gets lost.

This event is after the DeAnza Swapmeet. Before going home, come on by and have a great lunch and meet new friends. Why pay for lunch after the swap. Drop by, save your money and have lunch and learn about DMR radio. You may even win the HP Elite laptop.

For our September Pizza/Lasagna meeting we will have Charlie Morrin - nKI6FXY talk about DMR (digital mobile radio) radios.

DMR is one of the hottest new digital formats available to hams. The others being D-STAR (Icom) and C4FM (Yaesu). The advantage of DMR is that it is an open standard and radios can be purchase for about \$100.

What does DMR have to offer? Because it is digital it can leverage on the Internet. Your signal can be sent to the other side of the earth without deteriorating voice quality.

Once you get into a DMR node with your handie talkie you can talk all over the world with other DMR systems. Like your cell phone, it tracks your radio ID (not your frequency). The major advantage of DMR over D-Star and C4FM is that the radios are inexpensive since it is an open standard system. Some folks call them CCR (Cheap Chinese Radios).

Learn all about the DMR mode from Charlie Morrin.



Charlie Morrin, KI6FXY has been a active HAM for over 10 years.

Charlie presently works for Telewave in Santa Clara on DMR and other radio systems.

Telewave designs and manufactures high quality RF system products. It is the supplier of seamless interoperable communication systems that provide security and reliability in mission critical eco-systems for both commercial and military applications worldwide.

He is on the Board of Directors of FARS (Foothill Amateur Radio Society).

Connect Systems will offer there fully programmed CS-580 radios to our club for \$125. The Connect System transceiver, CS-580 is a dual mode (conventional and DMR).

CS580 UHF Radio



This DMR radio is designed specifically for the amateur radio operators and offers the best value in the DMR market. The radio includes a number of unique and advanced features and is easy to operate.

Connect to any DMR network without the use of a computer. Experienced Hams who prefer to use a computer can program up to 1,024 fixed channels.

Find the frequency of local repeaters in a new city by placing the radio into scan mode. Then let the radio automatically find the frequency for you.

Connect to any DMR network without the use of a computer. Experienced Hams who prefer to use a computer can program up to 1,024 fixed channels.

One of the great features of meetings is our raffle prizes. This year I have lined up some great prize. Well over \$1000 worth of prizes. Raffle tickets are only \$5 each.



Grand Raffle Prize - HP Elite 14 inch Professional Laptop - rated by CNET 4.5/5.

This laptop really hums. I tested it with downloading real time *ABC.COM* HDTV and it was only at 48% CPU. *Youtube* full motion video was only 20% CPU. So there is plenty of power to spare.

- Intel Core i5-540M Processor (2.53-GHz, 3MB L3 cache)* Up to 3.06 GHz with Intel Turbo Boost Technology
- Window 10 operating system
- 4GB of DDR3 ram (upgradable to 8GB) - 260 GB hard drive
- DVD reader/burner, SD reader slot, 4 USB ports
- Line in and headphone jack (most low end computer no longer have line-in)
- LED light to illuminate the keyboard in the dark
- HDMI output

Several other raffle prizes will be offered: Baofeng UV5, flashlights, and DVM