

R.A.I.N. Update

Welcome to this addition of R.A.I.N.! We managed to make it through another Field Day radio exercise at Woodley Island, record breaking R.A.I.N. fall, and some of the worst HF conditions. This newsletter is about ham radio aka amateur radio in Humboldt and everywhere else. I want to thank some of our local businesses who welcome our newsletters and leave them out for their customers to read:

Burgh's Electronics and *Redwood Electronics* right here in Eureka; *Radio Shack* in Garberville; *RWS Services* in Fortuna. All these businesses help the greater ham community and I am especially grateful to each of them. Do you know of any other technically based businesses would be a good fit for a courtesy copy of R.A.I.N.? Please contact me with the details—remember, there are new hams just waiting to discover ham radio so we have to do our part of helping them find US!

Do you have news to share? How about an article for R.A.I.N.? I am always looking for local news, events, and projects that you can share with me and the rest of the readers. If you are shy, I can make up a pseudonym like the callsign I gave my dog: WE8CAT!

This addition of R.A.I.N. will still have to be transmitted via the yahoo-groups email system. I am hopeful to find a better solution so that this can be emailed properly and land in your Email INBOX soon.

Ham Nation episode 255 features SPACE WEATHER

Last Wednesday, July 6, I remembered that Ham Nation was web casting LIVE. I clicked on the live link and was rewarded with the usual gang plus one; Dr. Tamitha Skov. She isn't a HAM yet, but many of our ranks are working on her to get her ticket. She does her own regular podcast on the web, but in this show, you can really understand why her reports are so tangible for hams relating to radio wave propagation. It is one thing to love sun spots, but she offers much more information about the suns weather and how it impacts us here on Earth. Check out the link below:
<https://twit.tv/shows/ham-nation/episodes/255?autostart=false>

Amateur Electronic Supply Closing after 59 Years in Business

Amateur Electronic Supply (AES) will close its doors at the end of July after 59 years in business. No reason has been given for the decision to close the business. AES has been a premier player among Amateur Radio equipment retailers for decades, as well as a major presence at Dayton Hamvention® and other events. Various media outlets were informed of the closing in a brief e-mail message on July 6, but word of the closing has not yet appeared on the retailer's website or Facebook page.

"It's with great sadness that I have to tell you that Amateur Electronic Supply (AES) will cease operations at the end of this month," AES National Sales Manager Tom Pachner, W9TJP, said in an e-mail. An employee at the Milwaukee headquarters store, who did not wish to be identified, confirmed that the message was legitimate. It's believed that the AES staff was notified before the July 4th holiday weekend. In addition to the Milwaukee store, AES operates outlets in Cleveland (Wickliffe), Las Vegas, and Orlando.

Fond-du-Lac, Wisconsin, native Terry Serman, W9DIA (SK), founded AES in 1957 when he was just 18, after getting into the radio-TV business by working in his father's TV and electronics parts store. On January 1, 1998, ownership of AES shifted to Amateur Electronic Supply LLC, headed by Phil Majerus, a prominent Wisconsin businessman. Serman died the following year at the age of 60, after a period of ill health.

For many years, the public face of AES was its Executive Vice President Ray Grenier, K9KHW, who oversaw marketing and advertising for the retailer from 1964 until his retirement in 2013. Grenier nearly singlehandedly produced the famous AES catalog, as well as magazine ads. For about 20 years, he also organized the well-received AES Superfest, a promotional effort begun in 1995 that grew into a hamfest. In April, the AES Superfest hosted the 2016 ARRL Wisconsin Section Convention.

Many radio amateurs reacted to the news on various online forums, expressing surprise, sadness, and dismay, and saying they would miss AES. A few reminisced about having bought their first radios from AES.

source: <http://www.arrl.org/news/amateur-electronic-supply-closing-after-59-years-in-business>

Ham Radio Outlet July 12, 2016

HRO-Milwaukee: Amateur Electronic Supply's Closing on 7/28/2016

On July 1, 2016 Amateur Electronic Supply (AES) made the decision to close down their entire organization and terminate all retail operations at their Las Vegas, Cleveland, Orlando and Milwaukee locations. Upon hearing the news, and with the concurrence of AES senior management, Ham Radio Outlet (HRO) sent senior management to each location to interview the staff with hopes of acquiring some of the Amateur Radio retail employee talent in each of the current AES locations.

Together with this interview process, HRO examined what it would take to perhaps acquire one or more of the AES store locations. At the time of these interviews, many opportunities were explored with current AES senior management.

We are very excited to announce that HRO was successful in providing offers of employment to a number of soon to be former AES employees and that to some, we have offered positions that involve HRO sponsored and funded relocation.

We are also extremely pleased to announce that, after the closing of the Milwaukee AES location on July 28, 2016, Ham Radio Outlet will begin an extensive remodeling project to create the largest Amateur Radio retail showroom in North America. We will open our newest and largest Ham Radio Outlet in Milwaukee at the end of August 2016.

Effective at the closing of AES on July 28, 2016, all former AES locations' direct telephone numbers

and toll free telephone numbers will be redirected to the closest HRO location so as to not disrupt providing service to the AES customer base. Additionally effective on July 28, 2016, the www.aesham.com website will be directed to www.hamradio.com also so as not to disrupt service for the AES online customer base.

Steve Gilmore, National Sales Manager for HRO states, “We are extremely excited to have a store in the Central Northern part of the United States. It will minimize shipping times for our products to be able to be delivered in 2 days or less in most of the lower 48 United States. We are building a showplace that all must come see! It will be expansive with massive inventory levels and a large all encompassing demonstration area featuring nearly all of the Amateur Radio transceivers on the market today.”

Robert Ferrero, President of HRO tells us, “It is with great pleasure that we are able to continue Terry Serman and Phil Majerus’ legacy of providing a fantastic Amateur Radio store in Milwaukee, Wisconsin. It is our immediate goal to have the largest, most well stocked Amateur Radio retail store in North America and perhaps even the world.”

HRO is a family owned business with 14 sales locations throughout the United States which includes a formidable presence on the Internet, making it the largest Ham Radio dealership in the world.

HRO has been continually expanding with our most recent location in Plano, Texas which opened on February 2, 2015. HRO is also continuing to evolve with the relocation and expansion of our Portland store which will open on July 25, 2016 at 14405 SW Pacific Highway, Portland, Oregon 97224.

Ham Radio Outlet – Milwaukee which is located at 5710 W Good Hope Rd, Milwaukee, Wisconsin will be open for business at the end of August 2016.

source: <http://forums.qrz.com/index.php?threads/ham-radio-outlet-news-hro-milwaukee.530196/>

NEW HAMS JOINED OUR RANKS RECENTLY

Hi folks:

We got some new HAMs on Saturday.

Edgar Dickinson Tech.

James Smith Tech.

David Johnson Gen. (Lapsed call sign, retook Elements 2 & 3. He will be assigned a new call.)

Jean Damon Tech. (Jean was our raffle radio prize winner)

John Damon Tech.

Jackson Ridlon Tech.

and from Crescent City,

Robert Parker KM6AGE Gen.

Unfortunately, Robert's three students did not pass the Tech. test.

73, Dan Eaton KB6DE/VE and Sherry Eaton KK6MPY/VE

/tu for the news Dan-- ed

Stormy Saddle Enduro Lacks Creek bicycle race July 30

Communicators are need for this racing event. Contact Don WA6NBBG for details, locations, and radio gear needed.

Up Coming VE Exam Dates & Locations

Ham testing in Eureka: Humboldt Amateur Radio Club

Date: Jul 16 2016

Time: 10:00 AM (Walk-ins allowed)

Contact: Irma D. Ruegg (707) 826-0767, Email: hamradio1991@hotmail.com

Location: Eureka Fire Dept classroom, 6th & C Street, Eureka CA 95501

Ham testing in Fortuna: Sponsor: Un-sponsored

Date: Aug 28 2016

Time: 12:00 PM (Walk-ins allowed)

Contact: Daniel R. Martin, (707) 768-9147, Email: Dan.AG6JW@gmail.com

Location: Fortuna Volunteer fire Dept, 320 S Fortuna Blvd, Fortuna CA 95547

Field Day

The Field Day 2016 results are still pending. The logging didn't quite get done so this will have to be compiled by hand and mailed to ARRL. Now for some 'action shots':



Despite the rather crummy bands on HF, we still managed to have some serious fun, great food, and over-came some serious hardware disruptions with the available masts and feed lines! Special thanks to Forest ki6gru for loaning his tele-mast; Don and Marci for feeding the hungry herd Sunday morning; Dan for being our scientist in the field with his test gear; Joe and Winston for the killer extra antennas and radios! Oh, and who wants some more fried chicken?!

/ed



Humboldt Amateur Radio Club

Minutes of Meeting - July 5, 2016

Officers Present: Jim Armstrong KW6JIM, Pres. / Peter Esko W6IES, V.P.
Dan Eaton KB6DE, Secretary / Jaye Inabnit KE6SLS, Newsletter Editor Pro Tem. Don Nelson WA6NBG, Past Pres.

Officer Absent: Marcy Campbell KE6IAU, Treasurer / Anthony Weise KG6LHW, Events Planner

Jim called the meeting to order at 7:02 PM at the Eureka, 6th Street Fire Department meeting room.

Intros were made and the log book was and passed.

Secretary Report: No report. June meeting minutes were distributed to the members for review and approval. The minutes were approved with minor misspellings corrected. Jim requested a copy of the minutes in which the members discussed the Trustee change for W6ZZK (minutes for April 5, 2016) be send to him by e-mail. I will do that.

Health and Welfare: No report.

Treasurer's Report: No report, Marcy was absent.

Vice-president's EMCOMM Report:

Peter W6IES reported partial success for the exercise held in Eureka on June 18th. Peter, Jaye KE6SLS, John KG6MAR, Howard KB6NN, with Jack KM6TE from Garberville and Doug K7KY from Brookings participated. Attempts were made to communicate between Mad River Hospital, Redwood Memorial Hospital on simplex using hand held and mobile radios. Conditions were difficult between many points and the courthouse. Howard used

his 4x4 and mobile rig as relay repeater near the top of the south jetty to establish a link between Arcata, Eureka, to Fortuna. There was no Redwood Valley participation so Peter drove to the Fortuna hospital during this exercise. The Pierce Mountain 146.910 repeater was intermittent.

Future Events:

a) Bike race on Saturday, July 30th :

Forrest Schafer KI6GRU told us about the Redwood Coast Mountain Bike Association (RCMBA) Stormy Saddle Enduro mountain bike race at Lacks Creek Management Area about 20 miles NE of Eureka and about 18 miles from Hoopa.

http://www.blm.gov/ca/st/en/fo/arcata/lacks_creek.html

Don said he attended last year and was pressed into service as an “ex-officio race time keeper.” They successfully used HT radios on VHF simplex channels. The course was hazardous, the riders fast and furious and injuries were numerous. A sign-up sheet was passed. <https://humboldtenduro.com/>

b) Jim said the club was planning an activation of the Coast Guard Lighthouse on Trinidad Head on August 20 and 21 for International Lighthouse Weekend.

https://en.wikipedia.org/wiki/International_Lighthouse_and_Lightship_Weekend

c) Jim told us Anthony is planning to personally activate several NPOTA locations soon.

Old Business:

Not discussed, but still pending –

a) A meeting with Reg Kennedy of the Weather Service re Skywarn affiliation.

b) The Trusteeship for the Club’s call sign W6ZZK pends.

New Business:

a) Jaye told us of his plans to put R.A.I.N. on the HARC website for all to read. This would be a change from a decision 10 years ago to limit R.A.I.N. to dues paying members. The current thinking is to provide club information to ALL interested parties, and invite participation in our local Amateur Radio activities and recruit new Ham Radio folks. Don moved to publish R.A.I.N on our website. Jim 2nded the motion and the membership vote was unanimous.

b) John confirmed the calendar information, specifically the meeting time and date, remained incorrect on our Yahoo website in spite of many attempts to correct it.

c) Jaye reminded us the COMM. vehicle (former Bloodmobile) has “aged out.” New tires alone would cost over \$1k. The vehicle suffers from bad rust and other maintenance needs expected from an RV type contraption built in June of 1987 and parked outdoors in Humboldt County. For example, an “auxiliary rain gutter” happily dumps water onto the driver’s seat. Just ask Peter.

Planning Steps: 1) Place a value on the COMM. van. which is, at present, marketable and includes two RV type generator sets.

2) Put the Van up for sale ASAP while the weather is good.

3) Use the sale proceeds to purchase a replacement van.

4) We are a 501/c3 category organization and this can be to our advantage in the cost and sourcing of the replacement. Dan and Peter will look into this.

5) We should try to find garage space to house the replacement van indoors to protect our investment.

d) Jim reported he was in contact with Lisa Savage at the Red Cross and learned the former Red Cross building was now vacant. We might be able to use the old building as a meeting place on a provisional basis. He will try to contact Chris Kozora-Jones about this possibility.

- e) Jim contacted QST about SK notices for Ralph and Sally Marx. ARRL needs death certificates or a published obituary notice. Jim will get a notice published in the Lost Coast Outpost for free and forward a copy to QST.
- f) Don informed us that 6M is open again for the first time in a long time.

Field Day Report:

Friday: Set-up had a cheerful crew. Dan bought his AIM-uhf antenna analyzer and Jim discovered intermittent sky-high SWR conditions eventually corrected with known good coax loaned by a member.

We discovered the main ex-military antenna tower is still incomplete, lacking the lower guy line set that holds the raising cage structure. Inventory and replacement part orders pend. (The new tower parts purchased since last year and the new winch handle made by Lonnie Harvey KJ6WDL worked fine.) As a result, we raised Jim's nifty Hex-Beam type antenna set up for 10-15-20M only 30ft instead of the maximum 54ft. The single feed line was routed into and out of the club's new tri-plexer and set of band-pass filters to 3 radios in the van.

Saturday: This year Joe Lowe allowed us to use his call, NU6Ø. Joe and sons Winston KJ6ICA and Isaac KK6TDS set up their amazing "short electrical length vertical with twin counterpoises." Each of the 3 elements had a remotely adjustable inductor constructed of plastic on a 3D printer by Isaac and Winston. The antenna was intended for 160M, 80/75M and 40M(?). Joe said efficiency was at about 35% due to the small physical size of the antenna. Equally interesting was their giant Rx/Tx loop antenna made from surplus plastic-covered elliptical copper tube wave guide with a remote control ceramic vacuum capacitor. WOW. Good for 80M and 40M, if memory serves, but again about 35% efficient.

Members made CW SSB and digital contacts this year but the bands were crumby. We hope to have a contact report next month.

The Saturday afternoon Potluck was wonderful. We had chicken and salad until the cows came home.

Sunday: Don Campbell KE6HEC and Marcy Campbell KE6IAU hosted our breakfast. We had Eggs, Sausage, Biscuits and Gravy, Doughnuts. Sherry Eaton KK6MPY brought Starbucks coffee. Fabulous! Thank you, food bringers.

Teardown of the Field Day stuff was done without reported incident. We have nobody to thank but ourselves. And so, THANKS EVERYBODY!

Nano Swap Meet:

Howard Lang KB6NN brought his new but unneeded 12" LCD monitor for sale. Dan grabbed his checkbook and made Howard's day.

Presentation:

Jim's planned video review of recent events was postponed to next month – no projector. We will look forward to a review of events of 2016 at the August meeting.

The meeting was adjourned at 8:30pm.

de KB6DE—tu Dan

FWRA news

No reports submitted for this addition of R.A.I.N.

RARC news

No reports submitted for this addition of R.A.I.N.

SHARC news

No reports submitted for this addition of R.A.I.N.

Humboldt County Emergency Communications Group meeting

Thursday, July 21, 7pm – 9pm

Location: 533 C Street, Eureka, CA (use 6th Street door)

Use the side door on 6th Street between C and D Streets, and go to the small conference room in front.

Coordinate Humboldt County's ham radio emergency response. Contact is Peter, W6IES.

Humboldt County Emergency Communications Group meeting

Thursday, August 18, 7pm – 9pm

Location: 533 C Street, Eureka, CA (use 6th Street door)

Use the side door on 6th Street between C and D Streets, and go to the small conference room in front.

Coordinate Humboldt County's ham radio emergency response. Contact is Peter, W6IES.

Humboldt Bay Marathon Volunteer Communications

Sunday, August 14, 12am – Mon, August 15

Contact John KG6MAR

FCC Finds a Fix for Amateur Radio Application Batch Processing Problem

It's taken a couple of weeks, but the FCC has resolved a computer programming problem that had affected its ability to accept and process batch-filed Amateur Radio applications, resulting in a backlog for the Volunteer Examiner Coordinator (VEC) and others taking advantage of automated processing. The FCC information technology staff had been attempting to fix the glitch affecting the Universal Licensing System (ULS) Electronic Batch Filing (EBF) system, since it first cropped up on June 28. At first, the problem affected the processing of all Amateur Radio and commercial license applications, said ARRL VEC Manager Maria Somma, AB1FM, who alerted the FCC IT Department.

By June 30, it appeared that the FCC had corrected the broader problem, but the EBF remained unable to process ARRL VEC's automated, batch-filed applications and exam sessions. VECs that were manually logging in to upload their files were unaffected. ARRL and FCC IT staffers put their heads together to get to the bottom of the blockage.

“The FCC IT staff was astutely attentive to the problem every step of the way as they worked with our IT department to find a solution,” Somma said. “We appreciate the specialized service we received.”

ARRL’s IT Department and the ARRL VEC confirmed on July 14 that the problem had been fixed, the backlog of more than 1200 applications and 300 exam sessions cleared, and the flow of automated, batch-filed applications and exam sessions able to resume.

source: <http://www.arrl.org/news/fcc-finds-a-fix-for-amateur-radio-application-batch-processing-problem>

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Jaye Inabnit ke6sls, ke6sls@arrl.net

For more information, please visit our website <http://www.humboldt-arc.org> or write to:

Humboldt Amateur Radio Club
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Eureka, CA 95502-5251

Amateur Radio Parity Act Receives Favorable House Energy and Commerce Committee Report

An amended version of the Amateur Radio Parity Act, H.R. 1301, received a unanimous favorable report on July 13 from members of the U.S. House Energy and Commerce Committee. The bill now will go to the full House for consideration. Before reporting the bill out of committee, the panel first voted to accept the amended language “in the nature of a substitute.” Rep Greg Walden, W7EQI (R-OR), who chairs the Energy and Commerce Committee’s Subcommittee on Communications and Technology, said the substitute bill represented “a good balance” following months of meetings, hard work, and compromise, and he recommended the measure to his colleagues.

“The amendment guarantees that even in deed-restricted communities, Amateur Radio operators are able to use an effective outdoor antenna,” Walden said. “Without an effective antenna Amateur Radio operators are severely limited, so this amendment ensures that amateurs are free to pursue their passion wherever they live.”

At the same time, he continued, the measure protects the rights of those “who have chosen to live in deed-restricted communities and to set their own aesthetic and other rules.”

In early June, the ARRL and the Community Associations Institute (CAI) — the national association of homeowners associations (HOAs) — announced that they had reached consensus on substitute

language for H.R. 1301 in an effort to move it through committee and to overcome objections to the companion US Senate bill, S. 1685. The offices of US Representatives Adam Kinzinger (R-IL), the bill's sponsor, Anna Eshoo (D-CA), and Walden mediated and offered assistance.

“While it's rare to have two groups with opposing viewpoints walk away from legislation happy, by golly, I think we've done it here,” Walden concluded. He said the nature of the substitute represented “the best of what our committee can do when we work together in bipartisan compromise that meets the needs of all parties involved.”

In her remarks, Eshoo said she was glad that an agreement was reached on the language of the bill, which she initially feared would violate the rights of homeowners associations. “We found a balance that works for all stakeholders,” she said. She called ARRL and CAI “the bookends of the effort.”

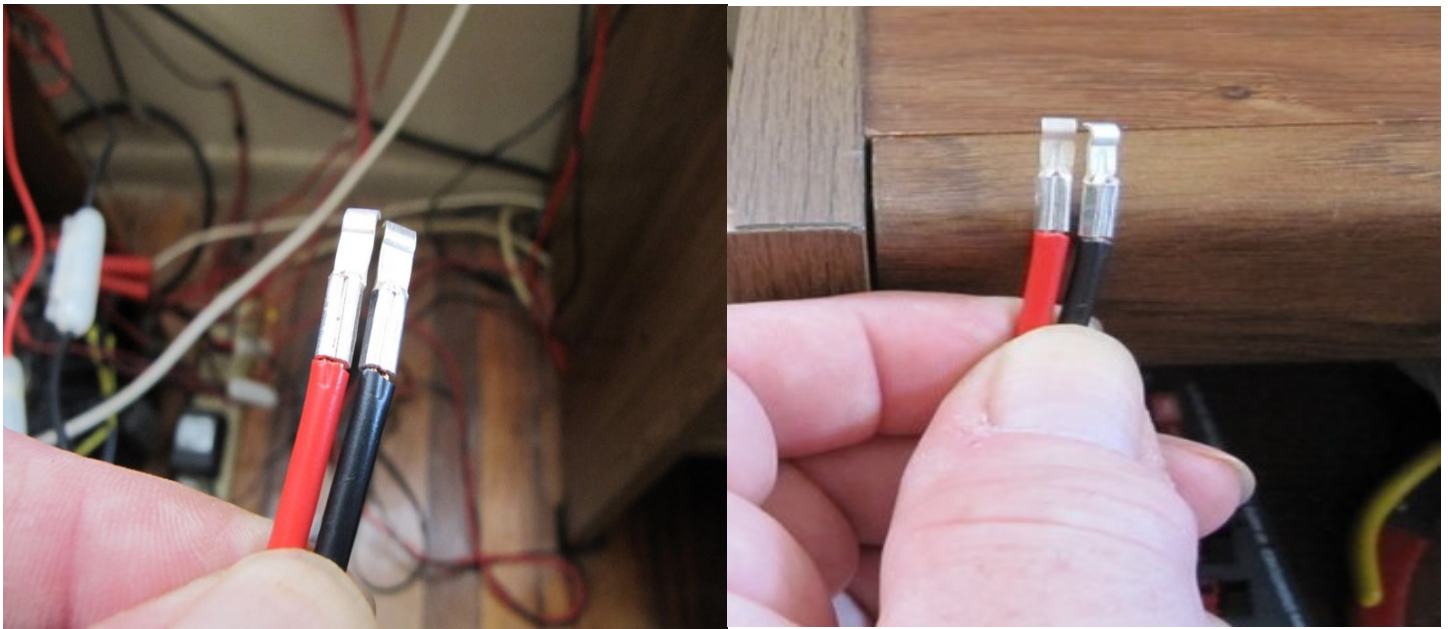
Kinzinger called the amended bill “a good amendment that strikes the right balance.”

source: <http://www.arrl.org/news/amateur-radio-parity-act-receives-favorable-house-energy-and-commerce-committee-report>

KE6SLS Radio Shack Upgrade—Past Due



Sometimes a temporary installation lasts far longer than we may expect or desire! After clearing off my desktop, I found 20 or 30 QSL cards waiting for the TNX stamp dating back to 2010. The picture on the right are all the wires and clips attached to a large deep cycle battery below the desk. To remove just one radio required a complete shack shutdown! After seeing some demonstrations of the Anderson Power Pole connectors at our HARC meetings, then later seeing other uses of these full power connectors, I decided to buy a real DC distribution box from MFJ. It arrived and collected dust for well over a year before I got my fanny into gear to do this renovation.

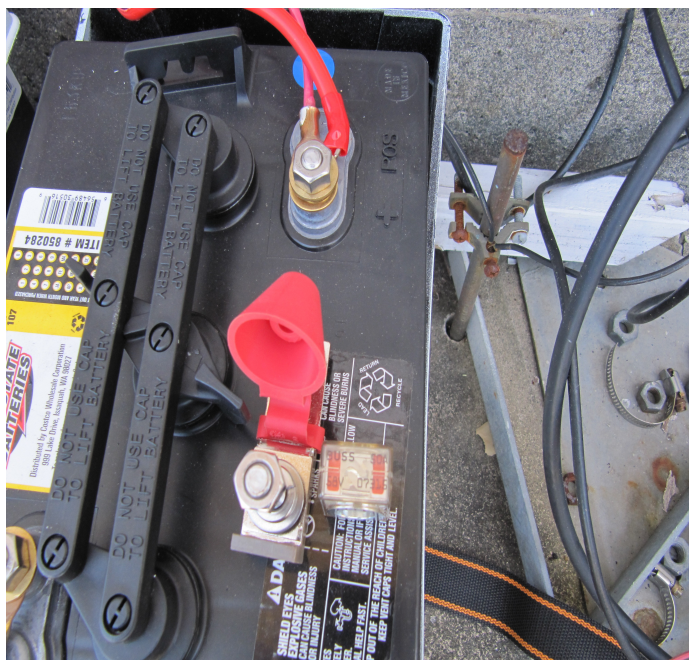


I had a generic crimping plier and attempted a couple of connections with dismal results. These connector terminals require a perfect crimp so that they will correctly slide and lock into the Power Pole housing. After many calls around town, I found a rated crimper tool at Burghs Electronics, along with another bag of the 30A and 45A Power Pole connectors. I also found some very useful crimping instructions on-line with youtube—several were produced by the two competing crimp tool retailers. After making my first crimps, the terminals locked into the housing perfectly and rewarded me with a telltale audible “click”. I clearly need to also buy some of the 15 amp units for doing small wires for things like HT's. No soldering is required, and after more research, found that the FAA requires so solder on all connections since the solder in copper wire can cause the wire to fatigue and possibly break. The finished Power Pole connection feels very solid and the ratings for current handling is quite impressive and is a natural fit for our high power radios.

I mounted the DC distribution box onto a simple 1/2 inch bit of left over plywood I discovered in my garage, along with the solar charge controller. It is a much better solution to powering multiple parts of a ham shack. The next update will be building a radio bracket to get all my VHF/UHF & modem gear off the desktops, then cutting the wires to a shorter length (and removing their inline fuses) so there is less cable clutter. Removing the extra cable length and inline fuses will not add any danger of fire since each outlet on



the DC distribution box is individually fused for the correct rating. The extra bits of cable can then be saved and used if the radio is removed from the shack and put back into mobile mode by adding more Power Pole connectors—ergo, no waste and no extra cables have to be purchased.



The picture of the new battery terminal on the left has a new bolt-on terminal with its insulator cover open waiting to be installed. This is an interesting terminal indeed that I stumbled on at Six Rivers Solar. It is actually a fully rated DC terminal and fuse setting just to the right of it. I wanted a 40 amp fuse, but the closest I got was a 50 amp unit. The picture on the right is the terminal and fuse installed along with the new brass terminals for the DC distribution box and solar controller charging line. Once installed, you can see it does raise the height of the terminal by more than one inch. Maybe an off-set terminal will avail itself in the not so distant future, but this satisfied my desire to fuse the power right at the battery without bulky inline fuses that really can't deliver the rated current I wanted for the distribution box. I will try to find a 40 amp fuse in the future but still hold onto the 50 amp fuse as a back-up.



I was pleased with the final result of housing the two 6 volt batteries in protective RV battery boxes. I will have to add some “smurph conduit” to protect the wires since this is the west side of the house and the direct sun really degrades wire insulation rapidly. In a more perfect world, I would have much bigger storage batteries, but the expense quickly becomes prohibitive. These are 6 volt golf cart batteries sold by Costco for \$83 each. Here is the cost break down with tax and/or shipping:

- Batteries with core \$212
- MFJ-1126 \$95
- Crimper tool \$55
- Power Poles \$30

Brass terminals (for 5/16 studs) \$10
Battery terminal block and fuse \$45
RV boxes \$25

Total cost \$472

I think our radio shacks are always in a state of change right from the beginning when we acquire our very first radio. Once we go beyond the first rig, the DC distribution box will certainly be very handy for using a single DC source for multiple equipment. By using the power poles, as demonstrated, also makes your equipment rapidly available in other locations during an emergency.

Fortuna June 26th Testing

New Licensee: Colleen Ridlon	T	Pending	McK
Upgrade: Jackson Ridlon	G	KM6DFQ	McK

Congratulations all!

VECs:

Irma Ruegg KF6FY, Dan Martin AG6JW,
Kirby Bay KE6ZPF, Hal Schulman KF6AAT,
Phil Scriver AF6LR, Sherry Eaton KK6MPY,
Dan Eaton KB6DE

R.A.I.N.
Box 5251
Eureka, California, 95502-5251

North Coast Nets

Sunday	0800	North coast emergency net	3.855 MHz SSB
Monday	1900	Arcata Emergency simplex net	146.430 MHz
Monday	1900	Eel River Emergency net	147.090 PL103.5
Monday	1900	Eureka Emergency simplex net	146.460 MHz
Monday	1900	Southern Humboldt Emergency net	146.790 PL 103.5
Monday	1915	Eureka & north UHF Emergency net	444.400 +5000 PL103.5
Monday	1930	Humboldt county Emergency net (nearest FWRA repeater to you)	146.700 PL1031.5 147.000 PL1031.5 146.760 PL1031.5 146.610 PL1031.5
Monday	1945	Humboldt County HF emergency net	3.955 MHz SSB
Monday	2000	California State net	3.992 MHz SSB
Monday	2005	Humboldt HF Digital emergency net	3.582 USB
Tuesday	1930	ORCA digital operations net	3.5825 MHz USB
Tuesday	1930	California-Mendocino net	3.915 MHz SSB
Wednesday	1000	California State net	7.230 MHz SSB
Wednesday	1930	FWRA net	146.760 PL103.5



[humboldt-arc.org](http://www.humboldt-arc.org)