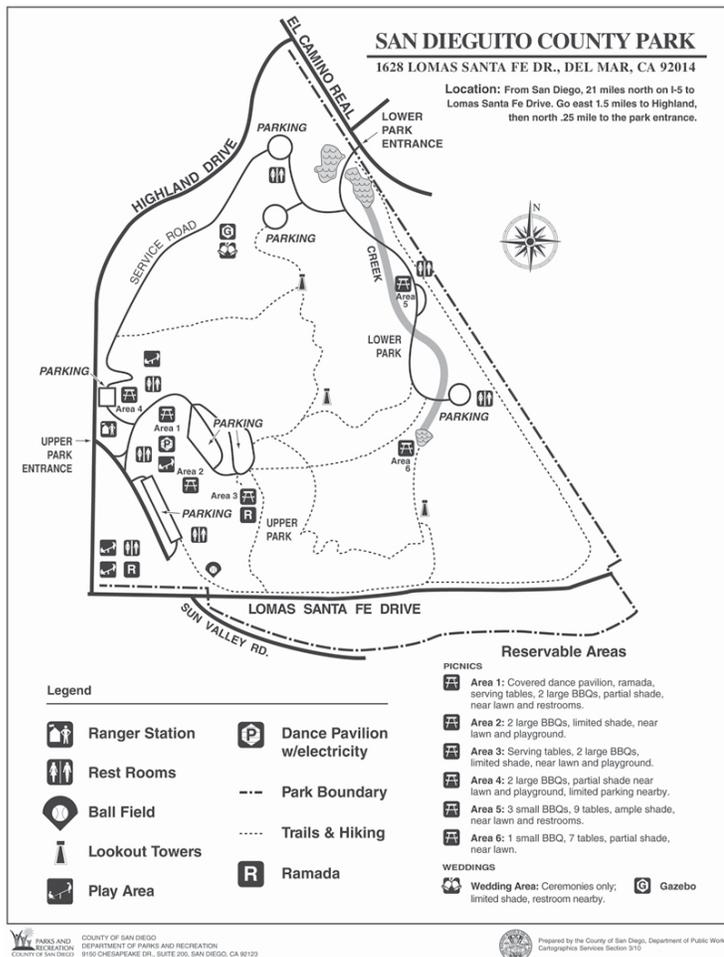


SCOPE

A newsletter by and for the Palomar Amateur Radio Club of San Diego, California.



Picnic Plans

The Palomar Amateur Radio Club annual picnic will be held at San Dieguito County Park area 4.

This will be on August 19, 2012 from 9:30 AM to 5:30PM.

Gina has offered to prepare the main items, to be complemented by pot luck items brought by club members. Joe N6SZO, of the Joe and Joe t-hunt show has offered to have a t-hunt for beginners and medium level. The tower trailer and HF radio will be there for all to use. We will see what Ron brings from the transmitter archives. This is the time to redeem your participation points from the past year. We will also have a one day raffle with a choice of either Powerwerx 30 amp desktop switching power supply with powerpoles, a Wousan UV3D preprogrammed radio, or a Rigrunner 4000U with crimpers and starter set of power pole connectors.

Save the Date

Club Meeting

1 August 2012

Fred W6HPH, on his noise cancelling amplifier featured in the January 2012 issue of QEX.

Board Meeting

8 August 2012

Palomar Amateur Radio Club board meeting at 7:30pm at K2RP QTH.

Club Picnic

19 August 2012

Potluck! Bring a snack, appetizer, tall tales, side dish, or dessert to share. Excuses will be grilled.

Field Day Organizer's Musings

by Charlie NN3V

Well, Field Day is over and I am sure everyone who participated had a wonderful time. Elsewhere in this month's Scope you will see pictures and notes about our FD. All in all it was a fun and enjoyable weekend for all.

As I did what had to be done to organize the FD event, I kept a short diary of happenings and reactions to what was happening. I thought I should use it to compile my observations about the actions involved in any volunteer effort.

Here goes.

April 4th. PARC Club meeting. Gee, it must be April Fool month. They asked me to organize PARC's 2012 FD event....Oh my God, they really meant it. Now I have to get busy. Well, the first thing is to find some folks to volunteer to help. I'll ask those interested to give me their email addresses and start an email distribution list. Next is to set-up a FD net on the repeater. That way people listening will be alerted to something they may have forgotten: Field Day is coming.

Note to self: whenever possible, talk about FD on the repeater. It "spreads the word". Hmmm: why do some of these hams not have a call sign email address? Sure makes it difficult to track emails. Somehow diddly-bopper@funkmail.com just doesn't cut it! It's hard to keep track of who is who with similar names. Call signs are so distinctive!

April 11th. First FD planning net. Wonder who will show up? Hey, good net. 6 attendees. Shame a jammer showed also. Note to self: make QSY note in next FD planning net email to volunteers. Good input from several. Good catch on getting workparty scheduled and planned. Should be easy with the email distribution list. That way I'll know who is going to help us.....after several days waiting; only 6 volunteered for workparty...best check the email addresses.

April 23rd. Frustration. Email sent out ...no responses...not even an acknowledgement from those who said they were interested..... have to call people on

phone for response. Hmmm...no one reads email, and several fail to answer texts. Fantastic! A shelter offered and I happily accept! Never, ever turn a shelter down...planning list distributed to all...must add U.S. Flags to next distribution of planning list.

April 30th. WOW! Look at what was volunteered this week. What a trailer and tower arrangement. That is really something. Will be nice to have it. Now we have 5 towers, and a good set-up for the site. Hmmm...I wonder why so many hams fail to get an email address with their call sign? Maybe I should send a note to the distribution list...FD planning net is getting busy. Lots of ideas for the workparties.

May 10th. Well, I am back from an outside of town trip. Wonder how things went last week at Club Meeting...Hmmm no responses to my workparty email... only those who volunteered earlier. No negatives, no positives, NUTIN!...hmmm...wonder why people sign up for an event, and don't bother to answer simple event requests... or even send note acknowledging receipt...oh yeah! They don't read their email.

May 12th. Fantastic...we now have all the band captains assigned, and they are taking charge of their stations. Nice group of band captains. All agree that we need to get new operators to not be afraid of HF! FD is NOT a contest...OH OH...do we really qualify for FOXTROT? Is the site an EOC? Best check.

May 15th. Great net tonight. Finally have the generators lined up...someone reminds us to get "quiet generators."....once upon a time the nice noise of the generators kept us awake at night. That was how we OPERATED 24 hours without sleep!!...note to self: make darn sure we have coffee all Saturday night!! May not be able to pull off another 24 hour op like last year without coffee!!

May 16th. Hi-HO HI-HO, To Dayton we go!

May 23rd. Gads that was fun. Wonder how the workparty is set for this weekend? OOOOPS...no new responses to email. Good group of volunteers, but lots of silence from the rest who said they wanted to participate, and should be added to distribution list. I'd better start calling people on the telephone. Maybe use snail mail?...NAH, the snail mail would get mixed with the junk mail and thrown out. How will

people communicate in the future? Oh yes, via SDR radios. They will be telepathic...chuckle, chuckle.

May 26th. Fantastic workparty. Well, the volunteers who responded outdid themselves. Nice to see some new faces, and new hams getting their hands dirty. Pleased to see a new YL in the club take this seriously. Good addition to the ranks. Got all the beams restored, tuned, and two broken ones identified with volunteers taking ownership to repair them...HM-MMM...good brew and lunch after the workparty.

May 30th. Nice net tonight. Couple of new check-ins. Got a generator issue to resolve. No news on shelters...is it possible that no one knows someone with a shelter who will loan it to use?...note to self...email note to distribution suggesting those who have not responded to anything that they check for a shelter... but then if no one reads email....oh well, BTFOM!

June 6th. DUH...I am the speaker/presenter for the Club's meeting tomorrow night?...glad to hear it now. OK. We got the goods. Flyer, good videos of past events, and lots of schmooze. Maybe I can rustle up the two missing shelters with some sleight of hand...why don't hams have call sign emails? Tracking these offers and questions is awful difficult when you don't know who diddlybum@myfavorite.net is...especially when they think you can read their minds....

June 10th. Fantastic workparty today! Got a bunch of new hams who were able to come to this one as they stated. All the antennas – but one – are ready to go. That gamma match sure is beautiful. Looks better than the antenna itself! All the station control gear inventoried, and accounted for...and I saw the fabled coffee pot for Saturday night coffee delivered to the coffee chef! We are set! And, miracle of miracles, the generator issue, and the missing shelter are accounted for. Moral of the story...note to self...talk up FD on the repeater...you never know who is listening out there...and another great idea for raising the towers came from a “newbie” to the club. FANTASTIC!

June 17th Getting down to near “show time”!...planning list seems complete...well, visiting San Marcos sheriffs and fire fighters shows no knowledge of PARC. Best change the class designator from FOX-TROT to ALFA...good to see funds for food got to

Psychokitchen chef...no hunger at this FD!...last planning list distributed...looks like a go.

June 20th Last FD planning net...nice turn out...no surprises but we do have two volunteers now for the large towing capability...seems all are arranged for workparties at storage facility, and then at FD site... some indication that we will have city officials visiting FD, and that is nice...rats! Press announcements are all screwed up! Some printed, others promised and didn't. Oh well, at least some worked...”new” tower raising procedure with winch assist should be interesting

June 22nd My shelter is loaded...lots of repeater chatter this morning. The PARC troops are massing...storage workparty is there already and headed for FD site early! WOW! What a great number of FD site volunteers...set-up should be pretty smooth... there comes that 50Ft tower...beams are assembled with no missing parts...Need someone to shinny-up a tower...OK. Safety harness is there...generators are all distributed...hmmm...one surprise shelter shows up so the pop-up tent will not be needed... and another shelter. OH NO! Propagation forecast is AWFUL.Oooops...what was that horrific noise at a tower? Did something fail?...Well! Another first! 1730 and all towers and antennas are up and set. And YL station will indeed be TOTALLY solar powered. That is great! Someone said we could not have all in place this early. HAR!!...time to plan a restful dinner...Lost Abbey brewery and Phil's sounds good.

June 23rd 0530...Ahhh... coffee at the FD site from my own brew pot...never had a shelter with full kitchen before...nice to have friends...I see the troops are arriving...Psychokitchen is in place for later today...inverted V dipoles need to be tested and tuned...oooops...20 SSB says their beam is not tuning...we'll go see when there is time...generators are powered...nice and quiet throughout...bands sound horrible but we won't know until 11:00...5 minutes to go. Time to QST the band captains on the FD site frequency. It is almost show time!...20 SSB station was trying to use antenna analyzer while stations were tuning up. SWR bouncing all over was just analyzer responding to induced current. NO PROBLEMS... Coffee chef has the big pot brewing...Psychokitchen is up and running...and the bands are DEAD! 20M is OK...but the rest are just awful...telescope at infor-

mation desk shows ZIP sun spots. The forecast was correct... WOW...the FD site looks fantastic. Everyone commenting on how nice the flags look at top of towers...good slow down on 78 as the lookie loos watch...the sign must be attracting attention!...great group of people at the site...and BY GEORGE! Here comes the KUSI news team...we are on TV...news at 6:00 folks...don' miss it. ...yep, Oceanside City Councilman Gary Felien is here. It is nice to see a political ham friend take interest. Good for us and good for him...10 SSB is rightfully frustrated...15 M CW is rightfully frustrated with 10 SSB calling CQ...note to self: PARC needs to get some decent RF filters... maybe switch to 40M is worth it instead of staying on 15M...CW and SSB report 40M is OK...during daylight even! Propagation really is bizarre...GOTA is finally up and running...good crowd around GOTA and Psycokitchen. What is better? Food or Packet?... satellite station is attracting interest...dinner time and the Tri Tip is simply DELICIOUS! Best FD food west of the Mississippi!...time for me to take my turn at 20 CW...never done this before in a major ham radio event (FD is NOT a contest)...QSO rate on 20 CW will go down a bit...band is closing so time to switch to 80 CW...Nice!

June 24th 4:00 AM and it is time for more fun. My second turn at the radio...80 M CW is hopping... and I manage to get the last cup of coffee out of the PARC FD kitchen...kudos to the coffee chef...he managed to keep us supplied for the whole night!... WOW...the bands are opening again. 20M and 15M report fantastic openings...Old Sol must have decided to cooperate after all...great breakfast...nothing like FD Kitchen bacon sausage and eggs with some good hot coffee...time to take the dipoles down...YL station shows that the solar system kept the batteries fully charge during the day, and this morning they are at 1/3 charge and recharging now that the sun is out...telescope shows some sun spots this morning. Now we know why the bands reopened?...even 10 M reports good contacts...yawn ... not enough sleep... body is complaining...time to discuss tear down strategy...towers down to nest height, then beam removal and disassembly...then towers taken down...don' forget to stow the antennas for proper lowering...tilt plates sure make the job easier...and now the EASY one. That 50Ft tower comes down at the touch of a button...all the gear stowed nicely...and we even have volunteers to go up to the storage facility...all I have left is to compile the ARRL summary. What a fantastic FD. ...Next year will be fun again. FD is not a contest!

The San Diego County Park System has a free Senior/Disabled parking pass available to county residents. I was unable to find the criteria for being a senior, but when I got mine a few years back, I just asked for it and they didn't ask questions! Maybe I'm obviously old! So, when you arrive at the park and are asked for the parking pass, even if you just look like a geezer, ask for your pass, which is permanent and valid throughout the county park system.

<p>HAM RADIO OUTLET</p> <p><i>H R O</i></p> <p>Jose XE2SJB Jerry N5MCJ Joe N6SIX</p>	<p>KENWOOD rf CONCEPTS DIAMOND US TOWERS KANTRONICS YAESU, MFJ, ICOM BENCHER, Inc. HUSTLER COMET AMERITRON</p>	<p><i>Astron, AEA, OUTBACKER Larsen Antennas TEN-TEC Hy-gain, Tri-EX, Cushcraft And Others too Numerous to Mention!</i></p>	<p>Drop in to see our display of working equipment. Find out about Pkt location determining equipment (APRS). Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of Goodies listed.</p>
<p>Open: 10a.m. – 5:30p.m. Monday thru Saturday 858 560-4900 or toll free 1-800-854-6046</p> <p><i>Ask about our great prices</i></p>	<p>Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stoplight. As you are turning right you can see our beams in this shopping center. Travel 100 yds. On Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas!</p>		

Great presentation of a 1972 Navasa Island Dx-pedition.

Make sure you play the video of the presentation at the end of the slide show.

<http://www.kc4dx.com/>

Friedrichshafen movie from Howard:

<http://www.youtube.com/watch?v=5W2XSZcFYcU>

Here's a link to the Field Day segment from KUSI.

http://www.kusi.com/video?clipId=7439484&auto_start=true

73 de NN3V

Thought this Contesting Info would be of interest to aspiring contesters

and a refresher course for those of us experienced contesters who experience "Senior Moments", now and then !

<http://k9jy.com/blog/2007/10/10/30-days-30-ham-radio-contesting-tips/>

At the end of some of the topics pages you will find more helpful hint topics like

Related posts:

30 Ham Radio Contest Tips — Do an After Action Review

30 Ham Radio Contest Tips — Review Newsletter for Contest DXpeditions

30 Ham Radio Contest Tips — Create a contest goal

30 Ham Radio Contest Tips — Work a contest one month before the real contest

30 Ham Radio Contest Tips — Send in your log

Simplex Emergency Exercise

by Cecil WD6FZA

To evaluate amateur radio emergency communications in Southern California the PAPA System is holding an exercise on Sunday August 5th, 9am to 2pm. All radio amateurs are invited to warm up their VHF and UHF analog AND D-Star gear, and get on the air using Simplex! Operate from your "shack", mobile, or better yet from a hill top.

Normally, we operate through repeaters, but get on the air simplex and find out just how far you can communicate. This is a great exercise for disaster preparedness. In the event of a disaster your local repeater may be off the air.

During the exercise there will be stations on the air from San Diego, the San Gabriel mountains, the Verdugo mountains, the Santa Monica mountains and beyond. You can operate from anyplace you like, but remember, elevation is king.

We would like to have stations first make contact with net control. We are planning on having net control stations in both the Western Los Angeles and North County San Diego areas.

After making contact with a net control station, net control will ask if other stations can copy you. All stations that net control acknowledges will have the opportunity to talk to you. Please monitor the frequency for a few minutes and make sure the frequency is not in use before you put a call out for net control.

Stations will be working both analog and D-Star simplex.

FM VHF: 144.450 MHz (primary), and 144.460 MHz (secondary)

FM UHF: 446.000 MHz

D-STAR VHF: 145.615 MHz

D-STAR UHF: 446.500 MHz

Be sure and spread the word, this exciting day of Amateur Radio is open to all operators, not just PAPA members and guests. If you belong to other clubs, please let them know, we want to flood the SoCal airwaves with amateur radio.

Get on the air, get RADIO ACTIVE!

73'

Cecil WD6FZA and YOUR PAPA System

YL Field Day

by Rusty AF6WF, Dick K6KAL and Gayle K6GO

This year the Palomar Amateur Radio Club had one very unique station. It was unique for two reasons: it was operated 100% by YL's, and it was run on 100% solar power. The all YL station was set up and worked out of Bob's KJ6RET Solar Shelter. He was right on top of monitoring and maintaining solar/battery power for us throughout the entire 24 hours.

Tom KG6RCW lent us his Kenwood TS 2000 radio setup. Dick K6KAL set up the computer from Nash W6HCD and N1MM logging system along with borrowed N6KI voice keyer. They also helped with set up and break down (minus Dennis who was on-air in Northern Ca.).

Georgia KI6LAV, Gayle K6GO, Teri W6TBR, Jo KB6MNX, Linda KD6HYN and Rusty AF6WF (Band Captain) helped with set-up and tear down. Michelle W5NYV single handled, manned the early shift.

Most of the YL's worked 4 hour shifts. Linda and Jo took the Saturday morning shift which started out really slow but got better. Band conditions were reported as bad for all the PARC stations. Jo and Linda honed in on their CQing skills during their shift. When 15 meter was dead the operators jumped onto 40 meters which finally picked up after about an hour or so. Because it was so slow on her initial shift, and she was just starting to have fun, Linda stayed on for the next shift. Talk about persistence.

Linda and Gayle picked up the next shift. 40 meters kicked in and the pile ups began to become more frequent. When it started to slow down they jumped back onto 15 meter and kept going strong. Rusty then took over and ran 15 meters until 40 picked up. Teri got to run the midnight special and Michelle relieved her for the early shift. Of course, Rusty got the privilege of running the Sunday morning shift again.

There were a lucky few who had loggers but most were on the YL's were on their own, calling, talking and logging. There many visitors to the station, most did not want to work, but a few put on the headset in the loggers chair, and were able to copy the call signs and exchange. As a note, we were contacted by one

club W0NT out east that was running 14 E, that is 14 stations. The operator had to ask for the exchange twice. Talk about a club effort.

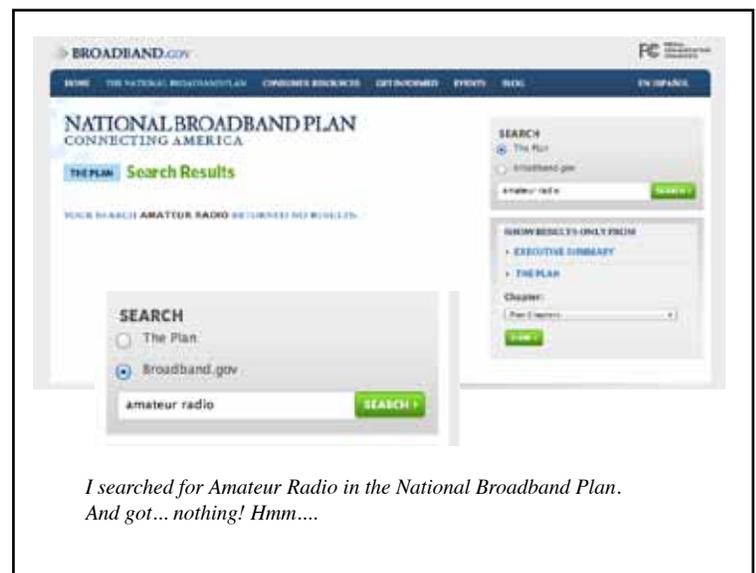
We ended up with 664 contacts, and very few dupes. We figure it was so much fun for some of the fellows that had to come back for more. There was a little bit of QRM (feed back) from the CW stations in the evening, but we were able to work through.

In closing, Kudos to all the YL's and all the support who helped make it happen. Many thanks to our young man who made the coffee runs for many of the YL's. So you see when several YLs agree to sponsor a band/station they did it with class and style.

SO, if you are a YL and interested in a fun event ARRL Field Day (not a contest), please contact PARC now and express your interest for a chance to operate next year.

Operators are standing by... hi hi
de AF6WF

73



FOR SALE:

Our Club has received a large donation from a local estate.

We're still cataloging and checking some of the items, but needed to provide preliminary list to meet deadline for this month's scope:

Palomar ARC members receive "first dibs" AND 15% DISCOUNT off prices.

Kenwood TS850SAT Std and 1.8KHz filters: Sale Pending

ICOM 718 w/DSP: \$475

ICOM 718 w/o DSP: \$400 Also have DSP unit for this one if desired for \$75 additional)

2 Kenwood 430S: \$300 ea

Ameritron AL-811H plus spare tubes \$600 (sale

pending)

LDG AT-1000 Autotuner \$300

Kenwood AT 250 autotuner for above and some other Kenwood units: \$175 Prefer to sell this with a 430S, but will separate if 430 buyers decline Astron RS-35A Power supply \$75. Will sell first to transceiver buyers if desired.

Ameritron AW-30 cross needle SWR meter: \$75

Nye Viking RFM-005 Power meter \$250

Also various accessories, coax, and miscellaneous detritus.

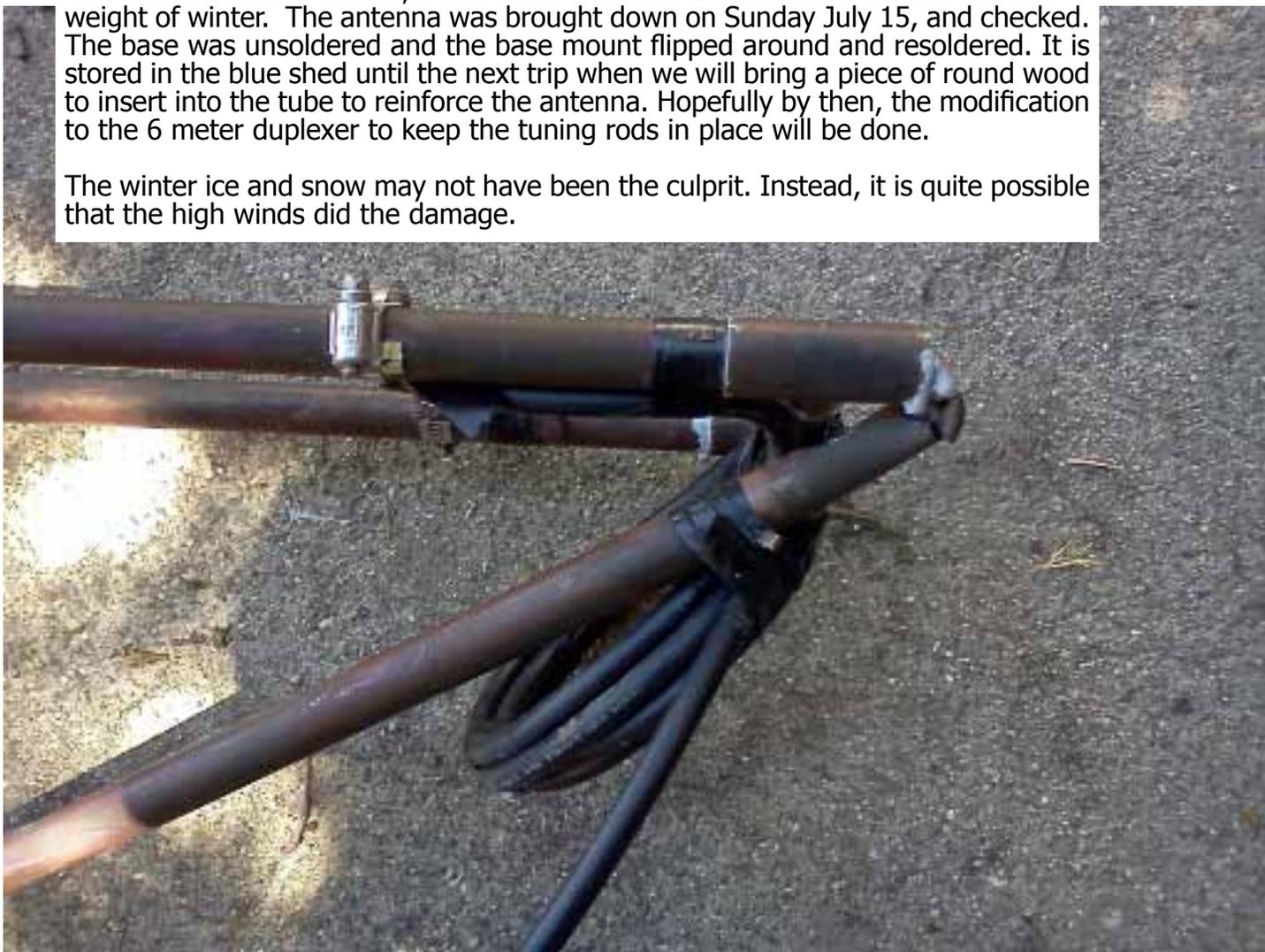
Please act quickly if interested. Items will be advertised to public after August PARC meeting. If this stuff not out of garage, XYL says I'll be moving out there too.

Call Ron K2RP (K2RP@ARRL.NET) for details, accessories, condition on all above.

EPIC FAIL:

This is what the 6 meter antenna looks like after a winter on Palomar Mountain. The antenna itself did not break, but the base to mount it folded over from accumulated weight of winter. The antenna was brought down on Sunday July 15, and checked. The base was unsoldered and the base mount flipped around and resoldered. It is stored in the blue shed until the next trip when we will bring a piece of round wood to insert into the tube to reinforce the antenna. Hopefully by then, the modification to the 6 meter duplexer to keep the tuning rods in place will be done.

The winter ice and snow may not have been the culprit. Instead, it is quite possible that the high winds did the damage.



Flip bracket

submitted by Dennis N6KI

1/4" thick Steel plate with 1 welded section and a large cheap strong hinge



Above, Ten Tec Model 1225 Wattmeter Kit. Review at [right](#)

Product Review

Ten Tec Model 1225 Wattmeter Kit

Jim Keller W6YXY

I had been looking for a Peak/Average reading wattmeter for some time to replace the SWAN model FS-301 wattmeter that I've had ever since I worked there. Looking at various reviews on eHam, nothing seemed to stand out as the perfect choice. Recently I found out about the Ten Tec 1225 Wattmeter kit. It had excellent reviews on both performance and the kit building experience. Price is \$159 plus shipping so I decided, why not. Ordered it online and the box arrived a few days later via UPS ground. I was a bit apprehensive about building a kit. I was aware that most of the circuitry was on two through hole type circuit boards. The last time I built a kit which utilized circuit boards was in the early 70s when I built a Heathkit solid state crystal controlled 2 meter transceiver. The concern I had was based on the knowledge that my eyes had changed quite a bit since then. I had laser surgery to correct severe near-sightedness in 1996 thus giving me great vision at a distance but pretty lousy vision up close. More on how I dealt with that later.

I used a card table to build the wattmeter spreading all the components and hardware so they could be easily found when needed. For soldering I used a 40 watt Weller variable temperature pencil type iron. The tip on the iron was 2.4 mm wide with the bottom resembling the edge of a flat screwdriver. In retrospect I probably should have used something a bit smaller but during my final inspection I didn't find any solder bridges. I used .032 inch size solder.

The instructions are very clear, for most steps. Assembly involves 27 capacitors, 2 8 pin ICs, a flat regulator, 2 diodes, 3 chokes, a meter and 29 resistors both fixed and variable.

There are two circuit cards for the SWR bridge and wattmeter assemblies. You build the SWR bridge assembly first, set it aside, and then build the wattmeter board assembly. The actual assembly on the boards is very simple. I took my time as I installed each component to make sure they went into the proper location on the board. The boards are clearly marked as to which component is required. I decided before I started that I wouldn't rush through the assembly. I did make one major mistake when I assembled the board which was very easy to catch. I put the meter on the wrong side of the wattmeter board. It was easy to do as the 4 contacts are not keyed to prevent an improper installation and there are solder pads on each side of the board. When I went to install the wattmeter assembly onto the chassis I couldn't understand why things were not lining up. Once I realized what I did, with the help of a solder sucker, I unsoldered the meter and then installed it onto the correct side of the board.

Regarding the eyesight issue that I identified previously. Even with my reading glasses I wasn't comfortable inserting the components, soldering, and then checking the results of the soldering. I got around that by using the reading glasses to review the instructions, then replacing them with a magnifying visor for the component installation, soldering and soldering inspection. It was a bit of a hassle to do it that way but I finished the project with no assembly problems other than the meter issue.

The actual assembly took me about 7 or 8 hours. The alignment took me another hour or so as I did it twice. The manual says you should plan on 10 hours total start to finish.

You can align the 1225 by using another wattmeter assuming it's accurate or you can follow the instructions and calibrate it using an accurate digital volt meter which is what I did. You need something better than a free Harbor Freight digital meter. Once you understand what needs to be done you can probably complete the alignment in 15 minutes or less. You essentially have to set 6 variable resistors. Once alignment is complete you just need to set the meter backlight to a color that you desire. Various shades of green to blue to red to purple are available. Once that is done you simply install the cover using 8 screws and you are ready to use it.

The meter has 3 ranges. 20 watt, 200 watt and 2 kW reading both forward and reflected power in either the peak or average modes. Its powered via a supplied wall wart.

Even though my ability to concentrate and my eyesight have changed quite a bit since I built that 2 meter radio, I enjoyed this experience and am pleased to say that it worked the first time.

I would recommend this kit to anyone who needs a wattmeter and would like to have a Heathkit like kit building experience.



Field Day Report

by Charlie NN3V

Field Day was a tremendous success. This is a summary of our operation, as reported to ARRL.

Contacts for which PARC Claimed credit:

BAND	MODE	QSOs	POINTS
3.5	CW	214	428
3.5	LSB	51	51
7	CW	409	818
7	LSB	316	316
14	CW	761	1522
14	USB	516	516
21	CW	504	1008
21	USB	346	346
28	USB	81	81

In addition, there were 4 Satellite QSOs, and the Get On The Air (GOTA) station contributed 86 QSOs.

The Club claimed the following bonus points as allowed by the ARRL Field Day rules:

BONUS CATEGORY	CLAIMED POINTS
100% EMERGENCY POWER	500
MEDIA PUBLICITY	100
SET-UP IN A PUBLIC SPACE	100
INFORMATION BOOTH	100
NTS MESSAGE TO ARRL SM/SEC	100
WIAW FIELD DAY MESSAG	100
FORMAL NTS MESSAGES HANDLED (10)	100
SATELLITE QSOs COMPLETED	100
NATURAL POWER QSOs	100
SITE VISIT BY ELECTED OFFICIAL	100
SITE VISIT BY SERVED AGENCY OFFICIAL	100
GOTA BONUS	80
REPORT SUBMITTED VIA THE WEB	50
EDUCATIONAL ACTIVITY	100

In accordance with the ARRL Field Day rules, all the above data leads to a claimed score of 12082 points.

PARC approached this Field Day in the true spirit of Ham Radio.

GET OUT THERE AND HAVE SOME FUN!

Leading up to Field Day we had two very well attended workparties where several new hams were able to get their hands "dirty", assembling beam antennas, learning about antenna matching circuits, antenna tuning, and the many little details about planning a Field operation. Needless to say, those experiences are valuable in general, and in getting ready to march out and operate in an emergency situation.

We had a a great turn out of volunteers to help set-up and tear-dwon the FD site, a nice turn out of operators (more than in many past years) who had scheduled times in the FD stations, we enjoyed operating a 100% YL station, and we had a great BBQ tri tip dinner and Sunday morning breakfast repast! We even managed to snare the attention of KUSI Channel 9, appearing on their 6:00 PM and 11:00 PM news on June 23rd.

What more can you ask for?

Oh yes! We even had coffee all Saturday and Sunday! (The significance of this note will be known by all who participated. If you do not know, then come out to PARC FD in 2013!)

My experience in past efforts like Field Day has always demonstrated that the key to a successful event is the participation by enthusiastic, involved volunteers . It is a team effort.

Thanking individuals invariably risks inadvertently leaving someone out of the list. So I will only say to all who participated: thank you for making PARC 2012 such a pleasure to organize.

73 de NN3V
 (P.S.: FD is NOT a contest. But 12082 points would have placed PARC as No. 5 on the list of 5A participants in the 2011 FD. But who is counting :=)) :=))



Friends don't let friends operate angry.



KD6AKT Ted at packet



KI6RET Robert at solar telescope brought by AE6IC Fred and KJ6JUS Eric.



KF6WTN Mark and guests



photo from e/b offramp at Barham

Field Day photos by Dennis KD6TUJ

IARU 2012 - NX6T (@W6HCD) - MS - HP

IARU HF World Championship 2012

Call: NX6T

Operator(s): WQ6X, KI6RRQ, K4RB, K6GO, N6OHS, N6KI, AF6WF, K6KAL, NN6X, N6EEG

Station: W6HCD

Class: M/S HP

QTH: CA

Operating Time (hrs): 23.6

Summary:

Band CW Qs Ph Qs Zones HQ Mults

```
-----  
160: 0 0 0 0  
80: 7 51 10 3  
40: 79 251 21 9  
20: 273 319 33 13  
15: 193 325 36 25  
10: 50 62 15 8  
-----
```

Total: 602 972 115 58 Total Score = 902,368

Club: San Diego Contest Club

Comments:

This was the best effort so far since 2004 for the San Diego Contest Ops and we found condition were OK considering the solar activity event. We were antenna challenged this year as we did not have the N6OX borrowed Tower Trailer at the peak of our 900 ft hill and used only the K6QK 40 ft tower trailer about 40 feet below the peak in front yard. We found 10 meters to be sparse but better than the past years. 20 and 15 provided the most QSOs and Mults. 40 and yielded a good amount of CW QSOs but 40 SSB QSOs was way down. Putting up a higher 80 meter dipole on Saturday afternoon to augment our low 80 mtr dipole definitely help us out on 80 CW and we did not have a 160 mtr antenna so don't know if we missed much there. We had some very good JA runs on 20 and 15 mtrs and worked a few on 10 mtr band opening Saturday late afternoon. EU could hear us fine on 20 and 40 but

receive signals from EU seem weak and we had to work to pull the EU stations thru. We wondered if the solar event was absorbing in our direction. We put Newbie Op Rich, KI6RRQ in the hot seat, and Rich, did very well on SSB with decent rate when running. We look forward to better condx in 2013/2014 !

Rigs - K3 - ACOM 2000A - 3 El SteppIR on 20/15/10, 2 El Shorty 40 above the SteppIR and 2 80 mtr inverted Vees in 2 directions at peak of roof on top of hill and other at 40 ft off of K6QK trailer. 73 de N6KI

Palomar Amateur Radio Club is looking for help to provide for the coffee goods table. The individual(s) would maintain the coffee service items for the Club. Jim W6SST has provided these services for the past few years, and has been very appreciated. Due to changes in his personal schedule he will not be able to continue. We all wish him well in his adventures and look to hear him on the radio. Individuals willing to assist the club with coffee service should contact a Board Member.

Dennis

Need to borrow / buy?

HP 182T working mainframe or compatible plug in (8558B, etc.) extension cable for testing. Have a HP 182T with 8558B spectrum analyzer module but system has multiple problems. CRT has good trace in "finder" mode but sweep is off scale during normal operation. Need a working 182T mainframe to test my 8558B plug in. Does anyone have extension tester cables for 8558B module? Contact WB6IQS@att.net Vista, CA.

Contact RBERS@live.com for info:

1. MFJ Versa Turner II MFJ941D \$80
2. MFJ Super DSP Filter MFJ784 \$100
3. Kenwood Station Monitor SM220 \$250
4. Hustler Antennas
RM9 \$10
RM12 \$10
RM15, \$10
RM20 \$20
RM40 \$20
RM75 \$20
5. Communications Specialist TE64 External Tone Generator \$35
6. Kenwood TS130S Transciever \$350
7. Yaesu FC901 Antenna Tuner \$300
8. Heathkit Linear Amplifier SB200 \$340
9. Kenwood PS50 Power Supply \$135
10. Kenwood TS940S \$400
11. Johnson Low Pass Filter Mod 250-20 \$10
- 11a. Johnson Low Pass Filter Mod 250-20 \$10
12. Waters Dummy Load Wattmeter Mod 334A \$160
13. Kenwood TM231A 2 Metet Tranciever \$100
14. Yaesu FT11R 2 meter hand held with two FNB28 batteries, a Quick Charger, and a 12 DC car charger \$60
15. Radio Shack HTX242 2 meter transciever \$80
16. RG8/U cable \$15
17. Kantronics Packet Communicator 3 plus \$125
- 17a. MFJ-1272MYV Mike TNC \$35
18. Johnson Match Box SWR Bridge Mod 250-25 \$120
19. Swan Watt meter (Neddle Stuck) \$5
20. Drake Q-XER Mod593 \$20
22. Heathkit Line Monitor IM103 \$20
23. Palomar M827 SWR/power meter \$70
24. Triplett Absorption Freq meter Mod3256 \$10
25. Heathkit Grid Dip meter ModGD1B \$20
26. Tunnel Dipper with attachments \$15
27. Heathkit AM2 SWR meter \$5
28. SWR Power Meter Cat. No. 21-524 \$25
29. Antenna Switches \$10 ea
30. Coaxial Relay 1000 Watts type DKC-6E \$30
32. GE CB 40 Channel Tranciever Mod 3-5804F \$10
33. GE CB 40 Channel Transciever HT 3-5900 \$10
35. 2 Mag mount CB Antennas \$15 ea
36. 2 meter mag mount antenna \$15
38. Hustler HF Multi-Band 5-BTV with RM80S top \$150
39. Cushcraft Ringer Ranger ARX 2 meter \$50
40. Backer and Williamson lo pass filter mod425 \$10
41. MFJ-910 mobil antenna matcher \$15
42. Kenwood MC60A mike \$100
43. Kenwood MC60A mike \$100
44. 1968 Vibroplex presentation key \$175
45. MFJ 422-CX Key \$35
46. Navy CTE -26003A Key \$40
47. Bencher Key \$60
48. 2 Vintage J-38 keys \$35 ea.

Club Membership for August Edition

New Members joining PARK.. KJ6VXW, KF7LPJ, KJ6WKB, KG6SXU, and Sherry Hughes, (No call yet)
And, 5 reinstatements, one all the way back to 1997!

All are welcome!!

AI
W6GNI

IMPULSE Electronics
(760) 747-5277 – (866) 747-5277
www.impulseelectronics.com
**Your Connection for
Emergency Power Solutions**

Power Products
Power Pole Connectors – Power Cables – Tools
AGM Batteries – Red/Black Zip Cord 14 – 8 GA

West Mountain Products
RIGrunner – RIGblaster – Accessories
PWRgates – Computerized Battery Analyzer
Coax Cable – Coax Assemblies – Adapters
Terminals – Coax Connectors – Battery
Chargers – Battery Accessories
Email sales@impulseelectronics.com

March Issue Fold & Staple Crew
March Issue Fold & Staple Crew
KB6NMK Jo WA5ACE Sonny
KB6YHZ Art & Janet W6GNI AI & Kathy

Do you have a mobile installation? Do you want to have a mobile installation, and need some motivation?

We're looking for a few good mobile installations - whether they're completed, on the drawing board, or half-way done and tripping you and your passengers every time you get in and out of the vehicle - to be featured in the Scope. We'd love to show your installation.

Tips, narratives, explanations, techniques, problems encountered and solved (or encountered and evaded) are what we're looking for. Send them in!
scope@palomararc.org

NiCd Lady Company

Grace Lloyd
N6WPA
grace@nicdlady.com

www.nicdlady.com

Custom Assembly • Rebuilds • Batteries
• Lead Acids • Replacement Packs
20585 Camino Del Sol • Unit B
Riverside, CA 92508
800/906-6423
951/653-8868
Fax 951/653-5189

Your Complete Battery Source



RF PARTS™
COMPANY
From Milliwatts to Kilowatts™

Complete inventory for servicing amateur
and commercial communications equipment

RF POWER TRANSISTORS — TUBES — POWER MODULES

Diodes • Relays • Trimmers • Capacitors • Heatsinks
Transformers • Chokes • Combiners • Wattmeters • Books

3-500ZG • 811a • 572B • 4-400a • 6146B • 8072 • 8560AS
3CX400A7 • 3CX1200A7/D7/Z7 • 3CX1500A7 • 3CX3000A7
4CX250B • 4CX250R • 4CX400A • 4CX800A • 4CX1500B

Merit W6NQ • Gary K6CAQ • Steve K6NDG • Rob WA6GYG • Doug K6DRA

760-744-0700

www.rfparts.com • orders@rfparts.com



Advertisements are free for members

Have items that need to find a new home? Advertise here! Send your ads to scope@palomararc.org

For Sale

Hallicrafter SX11 with matching speaker, good condition, works great. \$150 KK6GO@cox.net or 619-224-8948

For Sale

Hammarlund HQ 129X receiver (vintage 1946) in great working condition (New Filter Caps) and above average appearance. \$150. K2RP@ARRL.NET or 760-436 -8109

For Sale

Hello:

My 93 year old neighbor (Richard Krist) has requested my assistance with re-listing his radio gear (as he is going deaf).

For Sale (BEST OFFER)

Cushcraft Ringo Ranger, Model ARX1, Vertical 2M	\$30.00
YAESU FT-1000D Transceiver	\$2,000.00
Kenwood TS-950SD, 10-160 M Transceiver	CALL
Heathkit Phone Patch, Model HD 15	\$30.00
Remote Motor driven, 6 Pos Coax SW with Control Box	\$100.00
YAESU FT 2500 M, with Astro PS 12 A	\$300.00
Kenwood TR-7330 2 M, with Astro PS7A	\$150.00
Ten-Tec Titan amp 1kw, 10 to 160 M	\$2,000.00

Contact: R. F. Krist, W6KTE, (760) 724-2786

Buyers are welcome to contact me with their offers via email or on my cell phone so that I can present them to Richard. I can send photos if that will help. Thanks for your assistance in this matter.

Regards, A good neighbor

Dennis S. Stizza
Home: 760.724.2786
Mobile: 760.717.2214
dstizza@pacbell.net

SCOPE
P.O. Box 73
Vista, CA 92085-0073

PERIODICALS
POSTAGE PAID
AT VISTA CA
92085-9998

Return service requested

Scope (USPS #076530) is published monthly by the Palomar Amateur Radio Club 1651 Mesa Verde Drive, Vista, CA 92084. POSTMASTER: Send address changes to SCOPE, P.O. Box 73, Vista, CA 92085. Periodicals postage paid at Vista, CA 92084. Dues are \$20 per year or \$35 per year for a family. Dues include a subscription to Scope.

You can join or renew your membership on the club's web site <http://www.palomararc.org>

Editor: Michelle Thompson W5NYV

Submissions: scope@palomararc.org

Questions? Ideas? Comments? W6NWG@amsat.org

Featured Program:

At 7:30pm on the 1st of August, the program will be presented by Fred W6HPH

If you live in an urban environment you probably have man-made noise from computers, TV's, power leaks, neon signs, and a myriad of other sources. The Noise Canceller can eliminate these noises from your receiver.

Arrive at 7:00pm to socialize. We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA.