SCOPE

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

Club Picnic

The annual Palomar Amateur Radio Club Picnic will be on Sunday, August 29th at San Dieguito County Park, area 4. The park is located at 1628 Lomas Santa Fe Drive, Del Mar, CA 92014.

Thomas Brothers map page: 1167-J6

Park hours are 9:30 a.m. - dusk and we probably use them all. An operating station will be on site.

This is the place for you to redeem those participation points earned as a result of your going to meetings and events sponsored by the club. Participation points become tickets for the drawing. We always have a variety of fun and exciting prizes for the drawing. A maximum of 20 participation tickets will be allowed to a person.

10GHz and Up Contest Work as many North American stations as pos-

Work as many North American stations as possible on frequencies from 10GHz to light during contest days and hours. Contact Michelle W5NYV@amsat.org (put 10GHz in subject) if you would like to participate but need some encouragement. 21-22 August 2010.



Save the Date

Club Meeting 4 August 2010

Program at 7:30pm Ed KG6UTS presents on Military Radios

Board Meeting

11 August 2010

Palomar Amateur Radio Club board meeting at 7:00pm at W6GNI QTH

Club Picnic

29 August 2010

Club Picnic Area 4 at San Dieguito Park. 9:30am-dusk. Drop in anytime!

Recipes

by Jamie Boudreau - The Rosewater Rickey

brulee in bottom of mixing glass: 5 cherries bar spoon of sugar flamed angostura mist

fill with ice and add:

3 oz gin 1 bar spc

1 bar spoon of rosewater

1/2 oz fresh lime juice

shake and strain into an iced Collins glass top with soda water

garnish with brandied cherries

Enjoy before the California QSO party, coming up in October, along with our club auction.

PALOMAR ENGINEERS Box 462222, Escondido, CA 92046 TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request.

Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4** \$35 +tax+\$8 to ship.

BALUN KITS

Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160m).

Model BA-58 (for RG58, RG8X & similar cables up to ¼" dia.) \$8.50+tax+\$8 S&H/order

Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to ½" dia.) \$16.50+tax+\$8 S&H/order.

See catalog at www.Palomar-Engineers.com Please check our complete ads in QST, CQ, and WorldRadio magazines.

Upcoming General Meeting Topics

Month TBD - Lin Robertson KJ6EF - Vintage broadcast radios Month TBD David Doan KC6YSO "AM and other boat anchors" Month TBD - AK6QJ - Subject TBD

July Fold & Staple Crew W6GNI Al & Kathy WA5ACE Sonny KB6YHZ Art & Janet KB6NMK Jo & Toby

201

2010 ARRL Southwestern Division Convention

September 17, 18 & 19, 2010

San Diego, California Four Points Hotel Sheraton, San Diego

It's time for one of the best ARRL Conventions on the West Coast! Come see the Ham Gear and take in the sights of Sunny San Diego!

For up to date information about the Convention, please visit us at the website: www.sandarc.org/Click on Convention Button.

Contact Person: Paul KC6QLS at (619) 593-9445 or Email at kc6qls@cox.net

See you at the Convention!



KENWOOD

rf CONCEPTS

DIAMOND

US TOWERS

KANTRONICS

YAESU, MFJ, ICOM
BENCHER, Inc.

HUSTLER

COMET

AMERITRON

Astron,
AEA,
OUTBACKER
Larsen Antennas
TEN-TEC
Hy-gain, Tri-EX,
Cushcraft And Others
too
Numerous to
Mention!

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.

Open: 10a.m. – 5:30p.m. Monday thru Saturday great prices 858 560-4900 or toll free 1-800-854-6046

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!

Advertisements are free for members.

For Sale

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

For Sale

Item	Price
YAESU FT-1000	\$2,500.00
Kenwood TS-950 S	2,500.00
FT-2500 M	350.00
Kenwood SWR/PWR Meter, Model SW-2000	50.00
TR-7330 2 M	150.00
Astro PS7 A	25.00
Cubic Astro -150 A-10-80M Transceiver	250.00
Ten-Tec Centuriom amp 1kw	1,500.00
Ten-Tec Titan amp 1kw	2,500.00
FLUKE Meter Model 77	65.00
SHURE Microphone Push to talk Modle 444	30.00
3-500 tubes	100.00 ea.

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

For Sale

Crank-up tower, 4 sections (collapsed length= $12'\,9''$), triangular- 18'' bottom to 10'' top. 3' top bolt on tapered section with rotor head and thrust bearing installed + 6' of pipe above the taper. Base plate 22'' x 22'' with 3 spuds to set tower on. Lifting winch had a motor at one time but now gone, leaving a spline shaft sticking out of the worn gear box to which a handle or motor can be grafted. Located in Poway, weight 400+/- lbs for tower alone and 150+/- lbs for the top piece, base plate and winch - \$250. Gary 858-748-6076 wb6gsn@gmail.com

For Sale: HUSTLER 6BTV High Performance HF Vertical Antenna system, 80/75/40/30/20/15/10 m, complete with 250ft spool 14 ga wire and all precut radials, SS Tilt base and SS Radial plate. Used one year. Bought new at \$400, will sell for \$200. contact: Rich Ortloff KE6DUG 760-861-1406

For Sale: 6BTV Vertical Antenna. Crank up Tower with rotor and 3 El Yagi. Must be taken down and removed. Call Lee, (760) 726-1097

Recommended Remote Reading

by Roger AD5T

A new book, Remote Operating for Amateur Radio, was recently published by the ARRL. Covering a method widely regarded as a way to work around neighborhood antenna and tower restrictions, the book shows how improvements in both the throughput and availability of broadband Internet access have enabled and will continue to improve the ability of individual hams, groups, or clubs to build and operate fully featured remote stations. Author, WB8IMY, starts by covering reasons a remote station is desirable and concludes with a description of several different remote station architectures.

Basics of Internet addressing and configuration of a home network to support remote operation are covered in the second and third chapters, and hardware requirements are addressed in the next. Later chapters cover the transmission of two-way audio over the Internet and give example setups ranging from simple single antenna stations to ones with antenna switching and rotor control. There are a few items worth considering that didn't get much or any coverage in the text. Remote AC power control isn't addressed, but is easily accomplished with Internet power switches intended for remote web server control. There could be more coverage of the types of voice encoding and their different quality characteristics, some mention of terminal servers as a means to extend serial ports across the Internet, and more about free dynamic DNS services. The ability to access the radio host router remotely, a great aid in operating a remote station, isn't addressed.

The book is a good overview and would help a prospective remote station operator get up to speed quickly. It is available from the ARRL or from Amazon.

HRO is **sponsoring a class** for newly licensed hams. This will give info on what to do with new license, programming transceivers, etc. Contact Joe at HRO for details. (858) 560-4900

Radiosport Win

A Letter from John K6AM "Jeff,

Just got back from WRTC 2010 in Moscow.

I'm very happy to report that the N6MJ/KL9A USA team took home the bronze third place medal at the 2010 World Radiosport Team Championship in Moscow using the first ever IMC HF Triplexer. They competed on an equal playing field against 94 of the very best contesters in the world

The Triplexer worked admirably. The boys reported absolutely no interference or other problems. There were quite a few home made triplexers at the event, but none that I saw could compare to the construction, quality and performance of our IMC unit.

IMC's participation was absolutely key to their success. On behalf of the team, our eternal thanks to you and the crew at IMC. Here are some pictures you may use as you wish.

73, John"



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

Contest Report from N6KI

IARU HF World Championship 2010

Call: NX6T

Operator(s): N6KI, WQ6X, K4RB, AF6WF, K6KAL,

W2PWS, NN6X Station: W6HCD Class: M/S HP QTH: SDG

Operating Time (hrs): 21 Total Score = 467,002

Club: San Diego Contest Club

Comments:

Looks like we had a good balance of CW and Phone QSOs! 553 CW vs 468 SSB = 1022

QSOs

We Beat Our 2009 Effort by 83,000 points even though we had almost 100 QSOs less than last year! We had 13 MORE ZONES and 1 MORE HQ Stations compared to last year and I think we made quite a few more 5 point QSOs by working more stations on another continent

IARU HF Championship -- 2009

Ops: N6OX, K6GO, N6KI, N6XT, AD6ZJ

HRs: 19

Score: 384,788 points

Comments: Greetings to newcomers to the San Diego Contest Club - Bob K4RB, Rusty AF6WF, Dick, K6KAL and lastly Peter W2PWS, Gaylord

N4SF

Next Multi Opportunity will be CA QSO Party the first weekend in October. (Mixed Mode)

Please let me know if you want to participate from W6HCD site.

73, Dennis N6KI

Education

There has been interest expressed in classes for the following:

- Initial (Tech) licensing classes
- General and Extra upgrade classes
- Advanced instruction (Not just exam prep)
- Getting on the air
- Programming radios

We'd like to get an idea of interest in these, both from potential students and potential instructors. Please email Ron K2RP at K2RP@ARRL.net and let me know of your interest.

Field Day 2011

by Michelle W5NYV

No, that's not a misprint. The past few years we've had successful Field Days, but we'd like to start planning for 2011 now in order to avoid "last-minute-itis".

Fortunately, we have a very generous volunteer offer from Greg Gibbs KI6RXX. He will coordinate the PARC Field Day for 2011. He attended the July 2010 PARC board meeting, and the board appointed him Field Day Chair for 2011.

Please look for regular Field Day planning features in the Scope. There will be a wide variety of volunteer opportunities for Field Day 2011. We'd like to make it the best PARC Field Day event ever. Greg wants to especially emphasize public outreach, and we need a team of people to publicize, promote, and represent our event.

Here is a photo of Greg at the June 2010 PARC meeting. When you see him, please introduce yourself!



Logging Programs Used in 2010 WRTC IARU Contest World Championship

Graphic at right was sourced from http://www.wrtc2010.ru/result_table.php

Thanks to Dennis N6KI for spotting the link!

Contest Loggers and Power SDR For Flex Radios

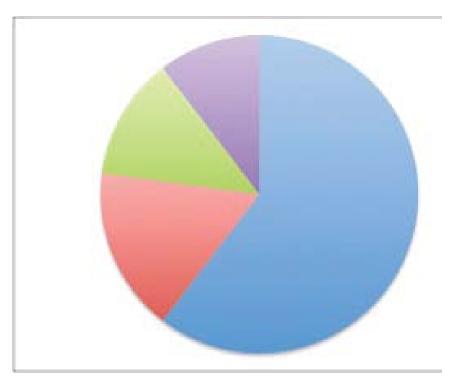
by Howard KY6LA

During Field Day, Paul NN6X, Conrad KG6JEI and I ran my Flex 5000 to see how well it would do under contest conditions.

Paul ran CW while Conrad and I ran SSB and PSK. The filter abilities of the SDR were astounding as we could easily remove any offending signal by just not decoding it...Something that even a old technology IC-7800 that costs 3 x as much cannot do. Needless to say we had a ball.

BUT... the one issue that seems to have given us issues was the issue of "FOCUS"... what is Focus? Well when you click on an application such as a logger, you change the focus to the logger... however, the SDR radio is in itself also a computer program ... so to work with that program ... such as tune frequencies.. you need to click on it and change focus to the program. Unfortunately during the heat of the contest, you sometimes mix up where your focus is and inadvertently change frequencies which can be very annoying.

I have brought the Focus issue up on the FlexEdge Reflector...Flex is already developing an entirely new app (Called Deep Impact) for SDR Control but now they also have formed a working group to design an entirely new way for controlling the entire station (Radio, Contest Loggers, CW Skimmer, Spots, Loggers, Rotors, Tuners, SteppIR's, etc, etc) called the Software Defined Station (SDS) as opposed to the current just Software Defined Radio.... This is a very exciting development as we are looking at 100 Mb/s TCP communications between radio devices to replace the slow clunky, obsolete and hard to find 0.038Mb/s serial ports currently used. It paves the way for very easy to



use and very responsive remote stations...

However in the interim I have found three things helpful when running contest loggers with PowerSDR..

- 1. Disable PowerSDR keyboard shortcuts for the duration of the contest. This will prevent inadvertent frequency changes.
- 2. Load and enable HOTWHEEL. Information can be found in article 50156 and 50420 in the knowledge base at kc.flex-radio.com. This will force the mouse wheel to retain control of PowerSDR VFO A frequency regardless of where the Windows focus is.
- 3. Use X-Mouse from within the Tweek UI portion of powertools.

http://www.microsoft.com/windowsxp/downloads/powertoys/xppowertoys.mspx

With X-mouse, the windows focus follows the mouse pointer without the need to click the mouse.¹

If you add N1MM to the mix, you can leave the mouse pointer in PowerSDR to point and click and wheel tune even when N1MM grabs the focus for keyboard entry.

Bottom line, these tactics should fix the Focus issue well enough until the Deep Impact arrives.

for Windows XP load the Powertools package. It is already in Win 7. Enable X-Mouse. I use an activation delay of 200 msec



Logging Programs for Field Day

by Michelle W5NYV

The most important aspect of a logging program for an event like Field Day is ease of use. Because many of the participants are either new to operating or are operating an unfamiliar station arrangement, the logging method should ideally be one that is easy to use, easy to teach, and easy to learn. Asking a more experienced logger to sit with an operator or logging with pencil and paper are probably the simplest two methods to use and adopt, since they don't require the operator to do anything other than what they may already know how to do.

If a computerized logging system is used, and the operators are unfamiliar with it, then training and/or an instruction sheet becomes necessary.

Several years ago, PARC purchased WriteLog for use at Field Day. The website for this program is located at http://writelog.com/ WriteLog is by W5XD and costs \$30. As you can see on the chart at the left, WriteLog is used by a respectable fraction of the top contesters.

Field Day organizers and operators have chosen in the past to use, or require, various programs, or to allow stations to choose their own logging method. Each Field Day team decides during the planning process what seems right for them.

What's WinTest?

http://www.win-test.com/

From the graphic at the above left, one can see that WinTest captured a large fraction of the market for WRTC-2010 contesters. 60% of the 48 stations used WinTest.

Win-Test is contest logging software written by Olivier F5MZN. Olivier also wrote DXNet, an Open Source DX Cluster system.

Collected funds by Win-Test sales are exclusively dedicated to the non-profit association RACK (Radio Amateur Club de Kourou) to help contest activities, especially the FY5KE activation during international contests.





AF6WF Gears Up For Contesting A NEW Contester emerges

by Dennis N6KI

AF6WF (XYL of Dick K6KAL) operated last weekend in the IARU contest at W6HCD site in Fallbrook, CA (850 ft elevations and 360 degree horizon) where we used "K6QK" (SK) Antenna Trailer with 3 element SteppIR and 2 element 40m Yagis and also a 4 element 20m Yagi on the Palomar ARC Trailer (loaned from KD6TUJ) with 80m coax stub wideband dipole at apex of tower.

Here is some useful info for newbies who have trouble tuning in SSB stations as Rusty did as she had very little HF SSB operating experience.

Check www. contesting.com web site and look at contest listings by WA7BNM in center of page and usually there is some sort of contest happening just about every weekend, especially "State QSO Party" types. These contests allow new operators to get practice tuning in stations.

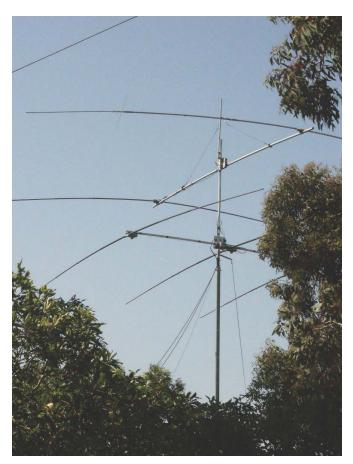
Here is a good primer on Tuning In SSB Stations

http://www.k5sld.com/presentations/kd5ra-articles/new-general-class-operator-2.pdf

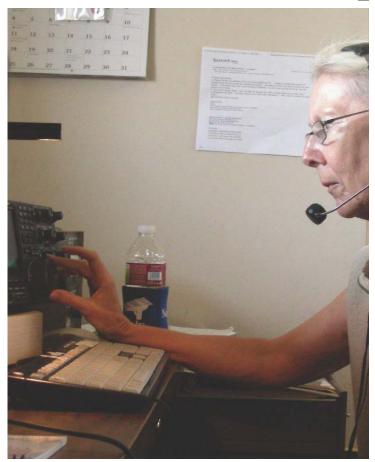
And, also a good thing would be to get a map that shows Call Sign Prefixes so one can get an idea where to point a directional antenna to better capture signals.

73, Dennis N6KI





Photos from K6KAL of the operating station, antennas and towers, the operator Rusty AF6WF, and mentor Dennis N6KI.











SCOPE page 9

Field Day Report

by Ron K2RP

Field Day 2010 has come and gone. Many of us are still catching up on sleep and nursing sore joints, but we'll all be back next year! Nash, W6HCD, was gracious enough to offer his world class hilltop location for an experience none of us will soon forget.

We operated in the unusual "6E" category. This means we had 6 transmitters on the air simultaneously, and were at a licensed location but using all emergency power. There were 5 towers in the air, plus dipoles and VHF antennas.

Our results were very respectable, if not record setting: There were 958 phone QSOs recorded, along with 1913 on CW, for a total score of 9568. We earned bonus points totaling 850, for a final score of 10,418. For once, we had a surplus of good CW ops! In my many years of FD participation, I can't remember that ever happening!

Sign in sheets added up to 28 participants during the event, but many more were involved in setup, teardown, food service and general "labor." As in any project, a few members stood out with outstanding efforts and generosity.

OUR PARC 2010 ALL STARS WERE:

N6KI: Dennis not only arranged for the site, but was everywhere, doing everything, and checked and double checked every detail. In addition, he supplied 3 of the 4 HF rigs: The K3 and IC7800 used for CW were his, as was the 80/20 SSB Kenwood 850S. Dennis had originally agreed only to provide the site, but when the going got tough, Dennis got going. It would not have happened without his experience, knowledge and dedication. 2 stars for N6KI!

K6KAL/AF6WF: Dick & Rusty were there, beginning to end, at every work party, planning session and setup. They were instrumental in keeping things on an even keel.

N1OW: Rick "saved the day" twice! At the "11th Hour," we were in need of two vital pieces. Rick stepped up and brought "Daisy," the water trailer, to fill the barrels that stabilized the towers. A job that would have taken hours with hoses was done in minutes! Then, hearing that our food service had canceled out due to a health situation, he brought his catering trailer and served not only Saturday dinner, but Saturday lunch and Sunday breakfast as well. Burgers and dogs for lunch, tritip for dinner, and full breakfast in the morning! Not only did Rick cook, but he did all the shopping too! I challenge any of the thousands of Field Day stations nationwide to equal our food supply!

WB6IQS: John has always been the stalwart in the setup of towers and antennas. Due to health issues, he was going to act only in an advisory capacity, but he came through 100% when he was needed. His experience and knowledge made the tower raising run smoothly and, most importantly, safely.

KC6UQH: Not only is Art our "go-to" guy for VHF, but his volunteering his front-hitched truck to move the tower trailers saved the day.

KJ6RET: Bob, a new member and recent ham, brought a solar powered trailer, with facilities to operate all 24 hours with only solar power. This was a first for our club, and a great learning experience for emergency communications in an entirely different way. Bob was there for many of the planning sessions as well.

Also on hand to help wherever needed: KG6JEI, KG6VVN, KC6VDX, KJ6DPR, KJ6HCT, KD6AKT, AI6IC

Without our dedicated operators, all this infrastructure would be for naught. Here are some of those who spent hours completing nearly 3000 contacts:

CW: K4RB, N6KI, K6BZZ, NI7R, N6NC, KM6Z, N4SF, K2RP

SSB: W2PWS, K6GO, KD6HYN, K6KAL, AF6WF

10 Meters: W6ASP (No one told Preston that there weren't many sunspots, so he made over 300 contacts on this band — highest total for any HF SSB band!)

6 Meters: WD6FWE (Don worked the country on this band, contributing 86 QSOs to our total)

VHF: KC6UQH contributed our 2m and 440 contacts.

My apologies to whomever I left out!

It's not too early to prepare for next year! We need to go over our antennas, coax, dipoles, etc. The only major "hitch" was that the 20m SSB station interfered with the 20m CW station so that they could not operate simultaneously. We're already working on a fix for that.

Members who couldn't attend this event missed an outstanding experience! Thanks once again to all who made it possible!
Ron K2RP

MDS/ERP Event Results

by Ed W6OYJ

This spreadsheet shows the results of a workshops where amateur microwave stations were compared on a unique test range for both transmitting and receiving performance. The test setup was developed by Kerry Banke, N6IZW and has been used by the San Diego Microwave Group and during joint Picnics held the past few years by the SDMG and the San Bernardino Microwave Society.

The test setup consists of a remote Tx/Rx transmitter/sensor unit installed on a pole about 15 ft. high at a distance of approximately 220 ft. from the stations being tested. The remote transmitter produces a stable signal on the operating frequency, such as 10368 MHz. Operators tune this in with their rigs and peak their antennas. The signal is then reduced in level until barely discernible (MDS). That level is logged. The operator then transmits with maximum cw power and the Rx sensor power level is logged. The spreadsheet is used with the logged data and with data on each rigs claimed antenna size and transmit power to allow comparison of measured versus expected performance.

The results have been useful, not from an absolute basis, but by allowing operators to compare their rig's results against other amateur's rigs having similar Tx, Rx, and antenna characteristics. Any major differences between performance can help

to focus on unsuspected problems that can be solved before upcoming contest events. In past events, operators have discovered problems with relays, cables, connectors, and even non-functioning power supplies.

The test setup is described in detail in an article by Kerry Banke, N6IZW, along with block diagrams for the 10 GHz and 24 GHz remote transmitter/ sensor units.

The spreadsheets are provided in Adobe Acrobat (.pdf) format. You will need an Adobe Acrobat Reader program to view or download the spreadsheets.

What you should look for: Your receiving performance is shown in the column marked "MDS Gen dBm". You want the largest negative value compared to other stations having the same size or performance antenna on that frequency band. In the last column marked "Meas-Calc" your transmit ERP performance is shown. A zero means that your ERP came out exactly as expected given the claimed transmitter power and antenna gain. If you have a positive number, then your ERP is better than expected by that many dB. If you have a negative number

then your system measures worse than expected. Good Luck!

Results from the July 19, 2010 SDMG Workshop at N6IZW QTH in La Mesa, CA are below.

						Range						
	July 19, 2010 SDMG EIRP/MDS Event					Feet	220			89		
10 GHz NB										Path Loss dB		
			ERP	Atten.	MDS	Calc	Calc					
		Outpu	PM	Value	Gen	Ant	ERP	Meas	Meas-			
Call	Dish size "	t dBm	dBm	dB	dBm	Gain	dBm	ERP	Calc			
N6IZW	24	37	-9	20	-86	33	70	69	-1			
K6DYD	48	42	-5	20	-80	39	81	73	-8			
WB6TFC	48	28	-11	20	-84	39	67	67	0			
WB6TFC	18	28	-7	10	-76	31	59	61	2			
WB6TFC	30	28	-5	10	-76	35	63	63	0			
W6VLF	30	28	-17	20	-80	35	63	61	-2			
KE6PBH	20	27	-7	10	-79	32	59	61	3			
W60YJ	30	26	-7	10	-79	35	61	61	0			
K6NKC	30	33	-11	20	-89	35	68	67	-1			
KD0IF	22	27	-10	10	-78	33	60	58	-1			
KI6ACI	12	15	-23	0	-50	27	42	35	-7			
K6VCR	30	25	-5	10	-81	35	60	63	3			
W5NYV/KB5MU	12	20	-17	0	-61	27	47	41	-6			
NB frequency is	s 10368 MHz,	F is 14	5 MHz w	ith 18 dE	3 cable lo	ss & am	p gai	n of 46	dB			
NB frequency is	s 24192 MHz,	IF is 147	7 MHz w	ith 18 dE	3 cable lo	ss						
Ant gain Calc a	Ant gain Calc assumes 64% efficiency =7+20*LOG(size inches/12)+20*LOG(freq in GHz)											
Measured ERP = Power meter reading+Attenuator + Pathloss +Cable & Mixer loss-Amp & Horn gain												
Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz)												

Oceanside Hams, Your 5 Minutes Are Up (Almost)

At the 2 June PARC meeting we learned of a proposed Oceanside zoning ordinance review meeting scheduled for Friday, 4 June 2010. Club president, Dennis had received a heads up email from Jon Studer, KI6PTN, who just happened to be on the Oceanside Telecommunications Committee

(OTC.) Essentially we had one day to review the proposal. Dennis and I attended the meeting and iges were each given 5 minutes to cover our views on everything in the ordinance. Basically, this process was totally inadequate for the task at hand and served only to fill-in a procedural check box for the OTC.

At our July PARC meeting we discussed serious shortcomings of the proposed Article 39 zoning ordinance. To begin with, it attempts to combine Amateur Radio Service and commercial provider practices into a single standard. Not only does this twist all the rules of writing for clarity, it masks the special nature of the Amateur Radio Service. In a few places it actually makes impossible demands i.e. section 3908, third paragraph: "Within

thirty calendar days following the installation of any Wireless Communications Facility permitted by this Article, the applicant shall provide FCC documentation to the City Planner indicating that the unit has been inspected and tested in compliance with FCC standards." And on and on. When was the last time the FCC certified your Amateur Radio station? Never, because the difference between a commercial and an amateur station is that the Amateur Radio operator is licensed, not the station equipment! This is exactly the kind of misconstruction that results from an attempt to combine Amateur Radio Service and commercial provider practices into a single standard.

I solicited a list of emails from Hams who wanted to be kept up-to-date and invited them to join a working group. At present, this list only contains 14 Oceanside Hams. There are over 350 Hams in the Oceanside! We definitely need more boots on the ground if we are to present a strong contingent of Oceanside Hams at the next OTC meeting. If you live in Oceanside and want to be kept informed, please send me your email address. My email is

hamkt4fk@att.net. I have separate email lists for Blind (BCC) and for in-the-clear. If you don't specify in-the-clear then you will be placed on the BCC list. I'll attach a copy of the Proposed Article 39. BTW, this list is private and will be destroyed once the Article 39 situation is resolved.

This zoning ordinance will affect every Oceanside Ham application in the future. The benefits from every improvement will be part of each and every application. It is an opportunity to enhance the Amateur Radio Service. When

do we start? NOW.

notification and coordination

with affected Hams is crucial.

That first OTC review meeting

was a wake-up call. Be involved.

1. **Organize** Oceanside Hams. When a public hearing is called,

- Be ready. 2. **Guide** the City with factual information that promotes a fair treatment of Amateur Radio such as Federal and State of California PRB-1 legislation, and
- Part 97.1 of 47 CFR. 3. **Expose** the fact that he cost of a Conditional Use Permit, now \$4080 (plus "other" fees) is not only totally unreasonable, considering the cost of an antenna installation, but is

virtually guaranteed for every Amateur Radio antenna application.

Fred AE6IC speaks at the June PARC membership meeting. Photo taken by KB5MU.

- **Consider** the fact that the proposed 3918 identifies the potential of Green Technologies such as solar or wind generation yet nowhere in the proposed article does it acknowledge the actual contributions of Amateur Radio as referred to in Public Law 100-594, Sense of Congress. This discriminates against Amateur Radio by implication.
- 5. **Show** that the requirements for HF operation are based on the laws of physics. There is no reason for the City to generate a new study to examine the same physical laws each time an Amateur Radio operator applies for an antenna permit. The ordinance should cover this.
- **Clarify** the fact that the physical design 6. requirements for operations on HF wavelengths vs. shorter commercial wavelengths are profoundly different. The way the proposed article is written impedes Amateur Radio by assuming arbitrary antenna heights.

- 7. **Identify** every instance in the proposed article where it discriminates against Amateur Radio or fails to adequately address our requirements. Describe failure to meet PRB-1 quidelines.
- 8. **Reason** that mixing amateur and commercial practices defeats all the rules of writing for clarity. The regulatory schemes covering the Amateur Radio Service and the commercial service providers are distinctly different and warrant separate coverage. Two separate ordinances are needed: one for the Amateur Radio Service and one for commercial service providers.
- 9. **Reason** that defending a poorly written ordinance will result in wasting Oceanside tax payer's dollars on unnecessary litigation losses.

Pass the word; if you live in Oceanside please add your email to the list of Hams who want to be informed.

If you would like to participate as a member of a working group we need you! Please get in touch.

If you know a City Councilman, please make an appointment to present our side of the story. Provide a point paper covering your goals. Feel free to use anything here.

And remember, be positive; we are servants as well as hobbyists. A good source of useful information is Antenna Zoning for the Radio Amateur by Fred Hopengarten.

His suggestion: do not engage the media because you could wind up talking to the wrong person.

"Never argue with a person who buys ink by the barrel."

Your five minutes are up. 73, Fred, AE6IC

Repeater Site Work Party

On Sunday, August 15, Palomar Amatuer Radio Club will host a work party at the repeater site. There will be a general clean up and maintenance. This is a chance for new hams to learn a little about the repeaters.

We will meet at Mother's Kitchen at 10:00am and proceed to the site. All are welcome to come early and enjoy the great foods at Mother's Kitchen before the party. A lot of hands will make for easy work. Contact board@palomararc.org for more information and to let us know you're coming.



Who needs a ladder? Photos submitted by Don WD6FWE.



Hello SD Microwavers,

At 3:28pm on 26 July 2010 I copied the Hawaii Beacon KH6HME on 144.169.4 MHz.

Not very strong but copyable on CW. Has a unique "whooping" signal.

73s de Ed W6OYJ

PARC Club Picnic - Details!

by Conrad KE6JEI

Plan for the club tower to arrive at 9:30am to start the day.

The club will be grilling up lunch basics throughout with the various festivities to be intermingled during the day. Bring a side, desert, or snack for the group and share the bounty. Conrad's famous brownies may just attend as well.

The site has a gated playground attached to it, plenty of green grass and fun for the whole family to enjoy.

Festivities to include:

10/15/20 HF BEAM to be setup and running to get you on the air.

Transformer Toss -- a fun event from last year

Fox-Hunt -- Can you find it? Bring your HT and DF antennas and see. Enjoy the park sights as you seek that pesky signal out.

Annual club points raffle -- Drawing to happen around 2:00pm You or your proxy must be present at the time of the drawing to win!

Points have been earned for each meeting you attended, each club work party you assisted on, field day, bringing goodies to club meeting, etc.

Picnic counts as two points! One for this year one for next year! (official rules available for review)

Hope to see you at the picnic, I know I will have a story or two of my own to share across the table as will many another ham, only way to hear is to attend!

More details to be announced on the club website and at the club meeting as available.



Left, below, and far right, Bob had a solar powered station a Day. He will give a presentate PARC about the station at an meeting. Photos by W5NYV.

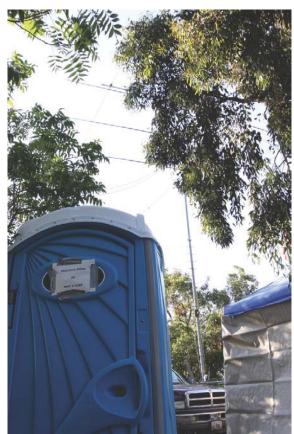








Above left, our Field Day host Nash W6HCD enjoys the excellent cooking provided by Rick N1OW. Above, a tower at Field Day. At right, Field Day HQ (porta-potty). Left, Preston W6ASP with a Field Day participant at 10m station.









SCOPE page 15

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

Return service requested

PERIODICALS POSTAGE PAID AT VISTA CA 92085-9998



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.

Editor: Michelle Thompson W5NYV Submissions: scope@palomararc.org

Questions? Ideas? Comments? W6NWG@amsat.org

Featured Program:

At 7:30pm, Palomar Amateur Radio Club will host a program at the monthly membership meeting on 4 August 2010. The program will be presented by Ed KG6UTS on Military Radios. Subjects covered will include collecting/operating Military radios, Nets and operating events, West Coast Military Radio Collector's Group. Ed will have some sample radios and slides of some collections and MRCG events. Arrive at 7:00pm to socialize. We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA.