

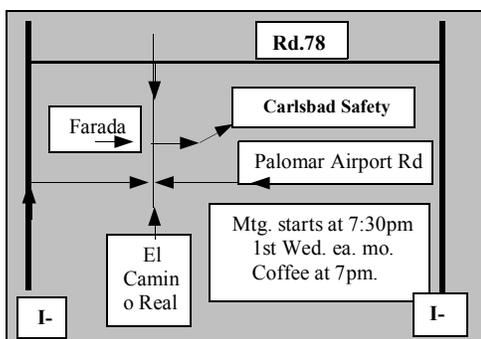


Palomar Amateur Radio Club

April 2002

Meeting Notice

Palomar Amateur Radio Club meets the first Wednesday of each month at the Carlsbad Safety Center at 7:30 p.m. Although most come at 7:00 p.m. for refreshments and to chat with friends. There is also a for-sale table, so bring that unused piece of gear to sell.



PARC Web Page

<http://www.palomararc.org>

OPEN Repeaters/CLOSED

Patches

Palomar Mt. Repeaters (W6NWG)

PARC Trustee of W6NWG: AB6QT

*52.680- W6NWG, -0.5 MHz

Autopatches(4): 146.730-, *147.075+

*147.130+, *447.000 -

PKT: 145.050s (PALMAR/W6NWG-1)

146.700-(Duplex Pkt) PALBBS/EMG use

145.070/146.7- (W6NWG-3/PALBBS)

ATV "OUTPUT": 1241.25 MHz AM

ATV "IN": 915wbfm, 919am,

2441.25wbfm

Intercom: 146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94- KK6KD (HARS)

*447.05- & *145.26- KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to *445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

Emergency Help

PARC member Harry Paul lost his house and all ham gear to a kitchen fire this past week, but he and his daughter Nikki escaped unharmed. Praise God. However the loss of over \$80,000 was not fully covered. Therefore, there will be a music benefit on April 13th. and 14th. to help. Please check of Rods web page for details at www.ac6v.com.

Presidents Message

President's Message:

Happy April all. This is the famous month that starts with a great deal of merriment and fun, frequently calling us to wonder if what we hear or read is true.

As the PARC Field Day organizer (a questionable honor?), I am frequently asked: "What are we doing for FD this year?" I can assure you that whatever we do, it is going to be *very different from past years!*

I won't belabor the point about the purpose of FD, or the many other points regarding contesting, fun, whether or not FD is a special event, and how to win extra points, etc. That's been covered elsewhere too many times. If you know nothing about FD, then I recommend you go to the ARRL web page, or read about FD in the many excellent QST articles appearing yearly on the subject. Perhaps the best thing you can do is: *get active in PARC FD 2002.*

For the sake of clarity, I will dedicate the rest of this column to giving you some reasons for getting involved.

FD will not be at the traditional site. We presently are scouting for a new site. We tentatively have two sites under investigation, one in the Del Mar area, and one near Palomar. Two *volunteers* are looking into their availability. If *you have a site idea*, tell us.

FD will not be the traditional 5A. Since the set-up convenience we enjoyed in past years is gone, the logistics of setting up a large FD, coupled with finding a new site and making arrangements for the antenna sightings will probably prevent that from happening. This might be alleviated *if we have volunteers for FD.*

FD operators will not be the traditional crew. Departure from our usual convenient spot means *we need volunteers to get really involved in planning, logistics, and set-up.*

When is FD 2002? FD is always the fourth complete weekend in June. This year that will be June 22nd. - 23rd. Operation of FD starts at 11:00 AM PST on June 22nd., and ends at 11:00 AM PST on June 23rd.

When is FD 2002 set-up? In general, hams throughout the U.S. will start setting up on Friday evening (this year the 21st.) and tear down is completed on Sunday afternoon (the 23rd).

What is needed for FD? Highly *motivated volunteers.* This is the one occasion to pit your skills against the vagaries of unpredictability. It is the one chance you will have to work alongside others, some who will have a lot of experience in antenna set-up, emergency power, jury-rigging electronics in the field, grounding, interference cancellation, and a host of other skills. Others *should be novice greenhorns* able to provide labor and spirit, and who at the end of FD will know more about ham radio than several years of lonely Ham shack operation will ever teach.

What logistics are needed for FD? Highly *motivated volunteers* able to work hard to gather:

- Shelters (at least one trailer/camper/mobile home per station)
- Electric generators (some will be available from the club)

- Transceivers (one HF transceiver per band we set-up, assorted VHF/UHF transceivers)
- Power meters, tables, chairs, computers, logging software etc.
- Etc, including the kitchen sink.

While PARC has a select amount of the above, there is never enough, especially when you factor in the equipment needed to keep Murphy at bay.

What amenities are available? Naturally, for fun, there is more fun than a barrel of monkeys can ever provide. Creature comforts are up to you. If we get shelters, some sleeping accommodations will be in the shelters (but remember that there will be a radio in operation all night). So, bring your sleeping bag, your tent, and your toothbrush (nothing is worse than sitting across from a bad-breathed ham hollering CQ SS into a microphone on Sunday morning), etc.

What food is available? PARC provides basic chow. Two years ago we initiated a **FD Family Picnic** on Saturday evening, where PARC provides the heavy cholesterol (sliders, burgers, canines, rolls, and cola). We ask that anyone who wishes to come to the FD site for the picnic bring a pot-luck dish to share with the gang.

Gourmet Arrangement. Two years ago, PARC also initiated the **Road Kill Café**, a culinary must visit stop for all FD clubs in San Diego county. The café earned the I. O.O.K. award "**Best FD Food West Of Dayton**" the two years of it's operation, and we expect the café to operate again this year. It hosts the PARC FD picnic, and hosts the FD Midnight Chili Cook-Off, the source of power for the Saturday midnight to Sunday morning stretch. It also serves food the 24 hours of operation, and a grand breakfast on Sunday morning.

Preparations. Well, **highly motivated volunteers are needed.** Leaving our traditional site will press our ability to prepare our equipment. Arrangements **will be planned on the PARC FD Planning Net, that will begin operation on Wednesday evenings, at 8:00 PM, on 146.730 MHz repeater starting April 17th.**

If you want to get involved, contact me at NN3V@amsat.org, or catch me on the repeaters. Above all, plan on meeting on the FD planning net mentioned above.

Meeting Agenda



Ears Auction

The Escondido Amateur Radio Society will hold their annual auction on the Fourth Tuesday of April, the 23d. Sellers register at 6:00 PM, Buyers at 6:30 PM and the Auction will kick off at 7:00 PM. Art McBride, KC6UQH is the Auctioneer.

PARC members are invited to participate in the fun and drag something home that they can sell at the PARC auction in Oct.

ARRL Convention AUGUST 16-18, ESCONDIDO

This year's American Radio Relay League ("ARRL") Southwestern Division Convention will be held at the California Center for the Performing Arts, Escondido, CA on August 16-18, 2002. Featured speakers: Jim Haynie, W5JBP, President, ARRL; Riley Hollingsworth, K4ZDH, FCC Enforcement Bureau, Special Counsel for Amateur Radio.

For advance registration or more information:

<http://sd2002.hamcon.net/sd2002.index.html>

Information courtesy of Jack Dobbs, WB6AXW, SANDARC VP

P.A.R.C. Inc (2002

Board)

Pres: Charlie Ristorcelli NN3V 858.676.3307
NN3V@amsat.org

VP: Mark Raptis KF6WTN
760.749.4825

KF6WTN@amsat.org

Sec: Paul Williamson KB5MU 858.571.8585
(760-742-9924PalomarMt) KB5MU@amsat.org

Treas: Jo Ashley KB6NMK 760.741.2560
KB6NMK@amsat.org

Dir#1: Paul DeCicco NN6X 619-
595.0500

NN6X@amsat.org

Dir#2: Jim Cooper NE6O 760-727-
8446

NE6O@amsat.org

Repeater: Stan Rohrer W9FQN
760.749.0276

PARC Testing - tests given each 2nd Saturday at 9:30 am in the Carlsbad Safety center in Carlsbad. Contact Rusty **AA6OM** at 760-747-5872 or at **DuneDancer@worldnet.att.net**

Register 5-7 days in advance for tests.

Escondido Testing - examinations on the LAST Saturday @ 9:00am, Chamber of Commerce, 720 N.Broadway, Esc 92025. Contact Harry **W6YOO** 760-743-4212.

Web Pages

PARC's Home Page - KE6WQE
<http://www.palomararc.net>

Rod's General Home Page - AC6V
<http://ac6v.com/>

ARES Alert Publication
<http://www.qsl.net/sdgarrl/alert.htm>

Tom's Hiker's Home Page - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Repeater Status 12.16.01

146.730+ : **Normal**

147.075- : **Normal ?**

147.130- : **Normal**

447.000- : **Normal No patch attached**

52.680 : **Normal?**

146.700- : **Packet Repeater Normal**

145.050s : **Packet Digi Normal**

PALBBS : **Bulletin Board Normal**

AutoPatch: **Normal** except for 447.000

ATV : **Operational**

Yeasu's New Home

Vertex Standard USA, better known in some circles as Yaesu, is moving to a huge, beautiful new facility. The new address is Vertex Standard U-S-A, 10900 Walker Street, Cypress, California, 90630. The new phone number is 714-827-7600.

All e-mail addresses will remain the same but telephone extensions will change. Vertex Standard makes the move -- no joke -- on Monday, April 1st.

Mt. Carmel Amateur Radio Club

The Mt. Carmel Amateur Radio Club located at the Mt. Carmel High School is beginning the new year with two ham radio projects named MARSC and McHABEx. The MARSC Project also known as the Mt. Carmel Amateur Radio Space Contact plans to organize an amateur radio con-

tact with the International Space Station in the spring of 2003. At the moment we have support from the high school administration, and are looking for funding for the amateur radio equipment needed to participate in the ARISS Program. (ARISS is the program which organizes the amateur radio contact with NASA and the ISS astronauts.) The MARSC project plans to put together an amateur radio station at the high school for students to use when the contact with the ISS occurs. During the contact, high school students will ask questions from the astronauts. The contact generally lasts about ten minutes, but is a good opportunity for students to see what amateur radio can do. The contact will also be a good chance for ham radio to once again appear in the media. The Mt. Carmel Amateur Radio Club will try to draw as much media coverage toward the contact as possible.

The McHABEx program intends to send a series of high altitude balloons into near space in the upcoming year. Each balloon will have increasingly complex systems aboard. The first balloon launch slated for this spring is planned to only have a beacon aboard for tracking purposes. Later the students participating will launch a balloon with temperature sensors and a telemetry transmitter on VHF. The final launch may include an ATV camera and APRS for the tracking of the balloon's flight, and a telemetry downlink for the sensors aboard. Currently the club has solid student participation with lots of students interested in the ham radio, engineering, programming, weather, and data collection aspects of the balloon project. The club is also looking for funding towards the project. The high altitude balloons, radios, Basic Stamp Microcontrollers, weather prediction programs, and materials will all be part of the budget.

The Mt. Carmel Amateur Radio club was founded in 2001 and has about twenty students participating. About seven students have been licensed as part of an after school class offered by a teacher who is also a ham. Currently the club meets during school on Fridays around noon. The MARSC and McHABEx projects are part of an after-school class offered by John Earnest KG6EQU on Mondays and Tuesdays called Radio Technology. The after school class meets at 2:30PM at the high school in

Rm. T12. Hams are welcome to stop by with prior notice. The club has a website at www.transworldradio.8m.com/mchs/index.html More information can be found on the website.

Contact Info: hilkiah@juno.com
ad6xs@amsat.org

From: Sam AD6XS
MCARC Club President
<http://www.transworldradio.8m.com/>

Brain Teaser

There are three switches in one room that control three lights in another room across the hall. You can only go in each room one time and you can only see the room your in. How do you find out which switch controls which light? Email me if you figure it out without cheating. Now those who know — be quiet. Answer next month.

10 Meter Net

Join Dr. Denny WA9MTP and the 10 METER group Monday - Friday at 8:00 pm on 28.340. The only requirement is you have the proper license and that he/we can hear you. 73

WBØYCQ – BERAND

Goodie Givers March Meeting

N6TCB Jerry
KD6AKT Ted
N6ISC Paul

Last Month's Fold & Staple Crew

KC6WAN	Ralph	W6GNI	Al
K6ML	Jim P	KB6AEW	Anita
KB6NMK	Jo	KB6YHZ	Art
N6UZH	Terry		
MY2KD	+2		
WA5ACE	Sonny		

Treasurer \$\$,\$\$\$

Jo Ashley KB6NMK @amsat.org

ASSETS

Cash and Bank Accounts	
876-1216457-6	2,512.11
876-1216625-9	2,664.04
876-1216778-6	2,638.22
876-1391556-4	3,188.83
Ckg 0682 010566	4,280.67
Post Office	103.63
TOTAL Cash and Bank Accounts	15,387.50
TOTAL ASSETS	15,387.50

LIABILITIES & EQUITY

LIABILITIES	
Pre-paid dues	8,824.00
Prop. Insurance	600.00
TOTAL LIABILITIES	9,424.00
EQUITY	5,963.50
TOTAL LIABILITIES & EQUITY	15,387.50

Club Membership

More New Members Joining PARC:

KC7JMA, KG6JEI, KG6JDF, AD6XQ, KG6IXN, and Bettadapura Sharma (No call yet).

In addition, 7 members that had let their membership expire, rejoined the club. When you hear these calls on a repeater, be sure to greet our new members. Please check your label for information on when your membership expires.

Also, from time to time, there will be an extra line with other information. This month the number of Activity points that we have on your record for this year is printed after your name, on the same line. 73 and Thank you. AI

PARC Board Of Directors New Ham Representative.

I am very pleased to announce to all our members that KG6JMP (Mike) graciously accepted the position of non-voting Board Of Directors member to represent the interests of new hams.

The Board is interested in fostering renewed meaning and relevance to all new hams in san Diego County, and KG6JMP will serve as a focal point for making those interests known and pursued by PARC. But remember, he is a *representative of new hams*. You can reach him through KG6JMP@amsat.org

As a representative he will be interested in hearing from all new hams about things that may be of interest, and in particular those interests that new hams are having trouble pursuing, or that they would like PARC to help with.

As a new position on the Board, there is no "job description" for the position, and Mike will mold and craft it to fit the interests of those who believe they can gain knowledge from the experience around PARC.

Welcome **KG6JMP (Mike)** to the **PARC "New Ham" position on the PARC Board.** 73 de NN3V

FREE COMPUTER CLASSES

The State of California sponsors six career development centers in San Diego county. These centers provide, among other things, free computer classes. If you are retired or searching for a job, these centers can provide you with valuable training at no cost to you (your tax dollars hard at work). These courses are free and open to everyone.

If you are having trouble figuring out how to download, install, run programs or organize your files, the Windows course may be for you. This is an opportunity to become self sufficient and avoid the aggravation and frustration of being clueless in the ways of Windows. Many other advanced computer courses are also offered for those wishing to improve their skills or learn new software. Not all courses are offered at every center. You must register for these courses in advance. If you can invest a few hours, you will be rewarded. Call the center in your area for more information.

SAN DIEGO METRO 858-974-7620
NORTH COUNTY 760-930-2400
INLAND NORTH COUNTY
760-738-0274
SOUTH METRO 619-266-3600
SOUTH COUNTY 619-424-1112
EAST COUNTY 619-590-3900

James, AD6LP

FCC & HAM TEAMWORK By W6VR

Fallbrook, CA - The town whose outskirts were hit by a devastating fire on February 10 is back in the news one month later as a mysterious source of interference hits Fallbrook's primary fire dispatch frequency, and hams aid the FCC in locating the jammer. The incident happened over the weekend of March 10.

Division Chief Milt Davies,

Committee Chairmen

AREInfo -Dennis S **K7DCG@amsat.org**
Attendance -AI **W6GNI@amsat.org**
ATV -Bills KB6MCU **W6GIC@amsat.org**
Auction -Jim C. **NE6O@amsat.org**
Badges new -AI **W6GNI@amsat.org**
Batteries-David KD6EBY DAT@Gerry.Palomar.caltech.edu
BBSMonitor -Bill B **N6FMK@amsat.org**
Billing:Ads/etc-Lyell K **K6GVM@arrl.net**
By-laws -Paul NN6X **pdecicco@pondlaw.com**
& -Ron RWA9JCL **r3mb@concentric.net**
Contest Info-Dennis V **N6KI@amsat.org**
ControlOps -filled **W6NWG@amsat.org**
D.Mar Fair-
Emergency QTH's (Emergency Com. Centers)
HarryH -W6YOO **W6YOO@amsat.org**
DennisV-N6KI **N6KI@amsat.org**
Field Day -Charlie R **NN3V@ARRL.net**
FDTech.-John K **WB6IQS@Juno.com**
Historian -
Interference -Bills **KB6MCU W6GIC@amsat.org**
Inventory -Dennis B **dennisKD6TUJ@juno.com**
MtgGoodies -Jim E **W6SST@juno.com**
Membership -AI **W6GNI aldonlevy@juno.com**
Nets -
Newsletter -
PALBBSpkt -Bruno H **KF6QDP@amsat.org**
Patch Info -
PatchETronics-Jerry H **WB6FMT@amsat.org**
Picnic -PaulD **NN6X@amsat.org**
PowerAC/DC-Mike P **KD6VHI@amsat.org**
Programs -Charlie R **NN3V@ARRL.net**
Publicity -Fred S **K6ISS@amsat.org**
QSL Cards -Merle R **KR6BT@Juno.com**
RACESinfo-Jo A **KB6NMK@amsat.org**
Red Flag - **W6HCD**
NashWilliams@Compuserve.com
Rptr Site -
Rptr Skeds -
SANDARC -
SellerTable -John K **WB6IQS@Juno.com**
AstSWDivDir-Walt **WA6ODQ@arrl.net**
TechSite -Mike D **AB6QT@amsat.org**
TestingVE -Rusty M, **DuneDancer@worldnet.att.net**
Training - **W6NWG@amsat.org**
TrusteeW6NWG-Mike D **AB6QT@amsat.org**
Web Site -Frank L **KE6WOE@amsat.org**

(Net Managers) (see pg.12)

ARES Sun -
Staff Net -David D **KC6YSO@amsat.org**
ARES 6m -David D **KC6YSO@amsat.org**
Ham Help -David D **KC6YSO@amsat.org**
Hiking -Ed **KF6DXX@Juno.com**
-Glenn P **KE6ZLY@Juno.com**
MARA-Cathy **KE6IQU W6NWG@amsat.org**
Microwave -Kerry B **N6IZW@qualcomm.com**
Off Road -Jerry A **jwak6pfp@cts.com**
-Dick W **KA7AYT rwilimek@home.com**
Sailors -
Traffic(SDCTN)-Charles **N6TEP cmiele@juno.com**

Questions about club policy or for information can be addressed to **W6NWG@amsat.org**

KD6UBA, of the North County Fire Protection District, recognized the interference to his fire department's primary dispatch channel as on-channel jamming, and he knew he needed outside help. This was no stuck mike. He was dealing with a signal that was largely unmodulated but would be pock-marked with strange data-like bursts. Sometimes the jamming transmitter was on-the-air more or less continuously. Sometimes it was on and off. Sometimes it was off for long periods of time and only transmitted for a few seconds in bursts. There was no pattern to the madness. The FCC and local hams were called into action to get to the heart of the matter.

First, permanent FCC direction finding stations on the West Coast were operated by remote control from Washington, D.C. in an attempt to pinpoint the source of the interference. However, because some of the DFing pods were down for servicing, only one line-of-bearing was obtained. The hidden transmitter could be anywhere along a 45 mile path.

To home-in on the location, members of the Palomar Amateur Radio Club were asked to listen to the fire dispatch frequency and give signal strength reports on the unmodulated carrier. It soon became clear that the FCC's mobile DFing activity - the next phase of the investigation - should begin in the vicinity of the City of Vista, CA.

Soon, an FCC direction finding vehicle appeared on the scene, operated by Bill Zears, engineer in charge of the FCC's San Diego Field Office. Unfortunately, the jamming signal was weak at the locations where the DFing work began. So Bill drove to Fallbrook, got a good bearing, and that sent him into the rugged eastern portion of Vista, a place with private roads and locked gates. Complicating matters was the fact that the hidden transmitter had decided to go silent for long periods of time, making DFing more challenging. Then a fire broke out on Marine Corps. Camp Pendleton, which is right next door to Fallbrook - underscoring the need to clear Fallbrook's frequency as soon as possible. The jamming had in fact blocked communications between the Fallbrook fire crews working the Pendleton fire, and their dispatch center. Bill stayed on the job as Sunday afternoon turned into evening.

Finally, enough DFing information was available to pinpoint the jammer to a 30' tower atop a hill in east Vista - a hill protected by a series of locked gates. Local

residents believed the site was operated by the local water company, but the company's emergency phone number dead-ended into an answering machine.

The Vista fire department was called where a Battalion Chief answered and offered immediate assistance. He was already up to speed on the interference thanks to a contact earlier in the day from a local ham radio operator, saving valuable time.

Then another ham chimed in and recalled that the City of Vista, back in its pre-800 MHz days, had a transmitter up on the suspect peak. That old transmitter just happened to share Fallbrook's current VHF dispatch frequency! The pieces of the puzzle were beginning to fit together.

Soon, a caravan of vehicles headed up the hill to investigate, with the Vista fire department opening the gates. Once at the site, in a locked outdoor equipment box, was Vista Fire's old VHF transmitter with the AC power still turned on - even though the radio system had been abandoned long ago. The crew lost no time in confirming that the box discovered was indeed the culprit, and they shut off the AC power. A long day's work had come to an end.

If you have ever wondered what the FCC considers as a high priority case, now you know. They're out protecting our public safety frequencies, and working long hours to do it. Dedicated FCC Agents are priceless; and so are hams.

In this case, it was a ham who recognized that the Fallbrook fire department interference was co-channel jamming. When outside help was needed, hams quickly zeroed in on the jammer's general location. Another ham brought the Vista fire Chief up to speed ahead of time, even though no one then suspected that Vista's old fire radio would be the culprit. Once the jamming site was identified, it was a ham who recalled the old Vista fire transmitter on that very spot, and the information was passed along to the FCC.

In short, hams represent a vast national

resource, in knowledge and skill, and their efforts helped speed the resolution of this public safety interference case.

The reason the Vista transmitter turned itself on is still a mystery as we go to press, but a rat's nest was spotted in the bottom of the equipment cabinet. Those critters are known to eat through and short out just about anything, and their copious fluids are conductive and corrosive.

If there is a moral to this story, it is to always deactivate or remove unused radio equipment. Even if you have a radio system that you want to keep around for a while as a contingency, pull the power or yank the coax. Murphy lives.

Goodie Givers March Meeting

N6TCB Jerry
KD6AKT Ted
N6ISC Paul

Contest

April 5 Mapan Int'l DX Contest
April 6 Polish DX Contest
April 6 Spanish RTTY Contest
April 6 QCWA QSO Party
April 20 Michigan QSO Party
April 20 Ontario QSO Party
April 27 Helvitia Contest, CW & SSB
April 27 Nebraska QSO Party
April 27 Florida QSO Party
April 27 County Hunters Contest, SSB
May 4 Ten-Ten Int'l Spring QSO Party
May 4 CT, MA, IN QSO Parties

Some really good stuff this time. DX, CW, RTTY, and state QSO parties. Go ahead and add to you DXCC and WAS totals. Rules may be found in QST, Worldradio, CQ, and National Contest Journal magazines.

See You In The Contest.
73, Harry, W6YOO

Ears Auction

The Escondido Amateur Radio Society will hold their annual auction on the Fourth Tuesday of April, the 23d. Sellers register at 6:00 PM, Buyers at 6:30 PM and the Auction will kick off at 7:00 PM. Art McBride, KC6UQH is the Auctioneer.

PARC members are invited to participate in the fun and drag something home that they can sell at the PARC auction in Oct.

10 METER PROPAGATION

The 10-meter band is subject to wide swings in propagation characteristics and also has several types of propagation modes. During solar peaks, long-distance F2 propagation is very exciting where low power stations can produce strong signals halfway around the world and the band is usually open from sunrise to a few hours past sunset. Propagation tends to follow the sun and for the USA, with Europe coming in the morning, a little later Africa, then the Caribbean, Central and South America with good propagation across the US. Later, the Pacific Islands, then Asia. There are also seasonal variations, and 10 meters tends to be better near the spring or fall equinox. Summer conditions can be poor even with high solar activity.

Ten meters and 12 meters can be exciting using low power and reasonable antenna heights. Old timers will say 10M can be worked with 5 Watts and a wet noodle, and it is true during the height of the solar cycle. I have worked China by loading my rain gutters. One urban lore is in the old days when a light bulb was used as a dummy load, OT's could work several hundred miles on the light bulb, so they say!

During the solar minimum, there may be no 12 propagation at all. Except for line of sight contacts, the band can be completely dead. In the intermediate years, 10 meters usually opens only to low and trans-equatorial latitudes around noon. During the peak years, signals tend to skip over the close-in states and from California to Wyoming is

very difficult. However, Ole Sol makes up for it in a different way, sporadic E propaga-

tion when Wyoming can be loud and clear if some of their 1500 hams will come on the air.

Sporadic E propagation is fairly common on 10 m, especially in the months of May through August, although it may appear at any time. Short skip, as it is sometimes called on the HF bands, has little relation to the solar cycle and occurs regardless of F-layer conditions. It provides single hop communication from 190 to 1400 miles and multiple-hop opportunities of 2800 miles and more.

Ten meters is a transitional band sharing some of the propagation characteristics of the VHF bands. Meteor scatter, Aurora, auroral-E and trans-equatorial spread-F provide the means of making contacts out to 1400 miles and more.

Beginners may ask why they can only hear one station in a two way QSO, unlike 40M or to some extent 20M. This is explained by skip zones, where you may hear across country but don't have a path to 400 miles away.

For newbies on 10 Meters --you will hear folks exchanging 10-10 numbers. 10/10 is dedicated to high Ham usage of the 10M band to offset other services from coveting the band. Is it worth while -- you betcha, otherwise we may lose the band as was the case with 11 Meters years ago.

"Ten-Ten International Net, or 10-10 for short, is an organization of amateur radio operators dedicated to maintaining high levels of amateur radio communications on the 10-meter amateur band (28.0-29.7 MHz). Established in 1962, 10-10 has grown continuously since that day, with some ups and downs according to the numbers of sunspots and the openness of the band. As you read this, the number of 10-10 numbers issued to members is over 70,000. 10-10 would welcome your membership in the organization if you have an amateur radio license with 10-meter privileges."

To join Ten-Ten International and get a 10-10 number, just contact ten 10-10 members (on 10 meters), listing their information as noted on the Membership Application form. See URL: <http://www.ten-ten.org/>

Treasurer \$\$, \$\$\$

Jo Ashley kb6nmk@amsat.org

TOTAL ASSETS	
Cash and Bank Accounts	\$15,983.69
LIABILITIES	9,348.00
EQUITY	6,635.69
TOTAL LIABILITIES & EQUITY	\$15,983.69

AC6V Mega Ham Index at <http://ac6v.com> and AC6V Book For DXers at

<http://ac6v.com/DXSAMPLE.htm>

73 From AC6V, Rod In Oceanside, CA

Uh-Oh!

I was saddened to see the criticism of the handling of the Fallbrook Fire, especially since it came from people who were not even there. The Fallbrook repeaters covered most of the area needed and were much better than any other repeaters available. The Fallbrook hams did a great job, they had people at all the key places, shelters, hospitals, Fire IC, AR staging and receiving, etc. Bill Dewey, WD6AHW had the net well under control, and his son Wayne, WD6AHX arrived at about the same time as I did and helped him. They were trying to locate family members who had been evacuated for the public. They were also sharing their repeaters with Animal Rescue and arriving ARES and RACES members. They already had hams at the IC and RACES had at least three operators there too, so when AR asked for extra hams to ride with their scouts I went out with one of them. I think all the Fallbrook Hams did a Great Job,

de Jo, KB6NMK



For Sale

(3.18) **KENWOOD TS 530S** Transceiver, 160 thur. 10 meters, manuals and mike. In good condition. \$450 Bob K3DLC 858 278 4864 or hurwi7@aol.com

(3.18) **2 METER MOBILE HTX 212** \$115.00. Very clean, never used as Mobile. Power Supply, **ASTRON RS 35A**. \$90.00. Very clean. Get both for \$175.00 Ed w6abe@amsat.org or 760-757-4050

(3.18) W6NFB Estate Sale, **Kenwood TS 450 AT, Astron RS 35A Power Supply. Mic. and Dummy Load.** \$500, **ALFA 78A KW** + Amplifier. \$500 Universal Aluminum Free Standing **40 foot Tower** with Rotor, Beam, Vertical and Coax. \$275, **Drake SPR-4** Communications Receiver \$25, (needs work) Contact: Wayne in Vista 760 - 724 - 0777

(2.18) **KLM 34A Antenna**, 2 yrs. Since complete rebuild, replaced with newer model \$150, **17 mtr. Beam**, \$75, **Mosley PRO 57**, 5 band beam, \$100, Estate sale for N6SMB, **Yaesu 150w Tuner**, \$50, **2m BRICK**, fm 50w, \$50, **Hallicrafters S120** receiver, needs work, \$25, **KDK FM 2015R** mobile, \$50, **HEATH RF Sig. Gen.**, \$25, **300W Dummy Load**, \$20 Ron, na6rs@amsat.org or 760-822-5170

(2.18) **ICOM IC-T81A HT**, (6m, 2m, 440, 1.2G), extra battery, software, and cable. \$260 Dave, KF6FA 909-677-2446 or kf6xa@qsl.net

***Personal equipment ads** are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

***Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.*

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(2.18) **ICOM IC 271A** 2 Meters All mode transceiver w\built-in Icom P.S. and pre-amp. \$300 **ICOM IC 471A** 400 MHz. All mode w\built-in P.S., one owner \$300, **TE POWER AMP** model 1412G 0-30 IN, 160w. Out. W\pre-amp. \$150 3 CDR Rotors, light and heavy duty, make offer. Bayard K6GAO 858-755-5507 or e-mail rehkopf@mail.sdsu.edu.

(2.18) **57 ft. Tower**, 2 section w/tile over, make offer, **GenRad Counters**, 30 Mhz. Models 1192 & 1192B \$25 ea. AB6QT, 760-742-1573

(12.11) **CW KEYER MFJ-401D** less than year old includes pwr adapter & manual \$35: Bernie N6FN 760-781-5522Wk, 760-746-7411Hm.

(12.11) Calrad SR-16 SWR bridge \$10: Ruth 760-727-3178 Vista.

(11.20) **Ten-Tec HF Corsair** 80-10m w/ pwr sup \$300; **Kantronics KAM** + cables, Hostmaster II + Pactor \$100; **Yaesu FT227R** 2m Memorizer \$30; **Icom IC25H**

\$30; **Isopole** ant \$10; **G5RV** full size 80-10m new \$30; **HP Deskjet 660C** printer \$40: Max KB7RNP maxkb7rnp@aol.com 909-696-8495.

(11.19) **10m 4el beam** SS hardware asking \$75; **13el 2m beam** SS hardware \$30: Bayard K6GAO 619-594-6063 days or 858-755-5507 nights.

WANTED:

(01.19) Wanted: Kenwood TS 530, good condition only. Contact: Orly at orly42320@aol.com

(10.22) Need diagram of Tempo-1: Fred Brown fw6@cts.com Palomar Mt.

(8.26) Wanted Heathkit Apache transmitter and Heathkit Mohawk receiver: Hugh K4ESQ via W9FQN@Juno.com

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Last Month's Fold & Staple Crew

KC6WAN	Ralph	W6GNI	Al
K6ML	Jim P	KB6AEW	Anita
KB6NMK	Jo	KB6YHZ	Art
N6UZH	Terry		
MY2KD	+2		
WA5ACE	Sonny		

Swap Meets

Western Amateur Radio Friendship Association Swap Net - March 6, 2002 Every Wednesday evening at 8:30PM Pacific Time on 3.908 Net Manager - K7RFI - Don Cory

7.240 Every Sat. and Sun. Starts around 12:30PM—Controls are various.

3.915 On Sunday mornings at 10:00AM Pacific Time. Net controls - W7BUN

3.922 On Sunday evenings from 5:30PM to 7:30PM PST Mid-West Swap Net

7.235 Every morning at 11:30AM PST. Western US Chaverim Rag Chew/Swap Net, Net control - WA6USL

3.908 "Northstar Traders net" - 8:30AM Central. Host = W5MAZ (originates from Minnesota/Wisconsin area)

146.085 + 600 "Yuba Sutter Amateur Radio Club's". Monday Night Swap Net at 7:00PM PST

145.210 Thursdays at 8:00PM in Sacramento. Hosted by WB2ZEI Armond. Covers central California and Reno via UHF/VHF Links

147.08 Sundays at 7:00PM Inland Empire Swap Net. Hosted by Art W7COZ Spokane, WA

FONTANA, CA

A.B. Miller High School Every 2nd Saturday of the month. Gates open at 7:30AM

LIVERMORE, CA

First Sun of the month. Las Positas exit off 580.

Largest in the San Francisco Bay Area Open to buyers and sellers at 7:00AM **LOS ALTOS, CA** (Foothill Swap Meet) March through October only. The second Sat every month at Foothill College in Los Altos Hills, CA Exit El Monte off 280 South of San Francisco

POMONA, CA

Cal-Poly Swap Meet (ex: DeVry) is every 3rd Saturday of the Month in parking lots 8 & 9 off Kellogg Drive

LAS VEGAS, NV

Local swap meet in Las Vegas, NV First Saturday of the month at the AES parking lot. It is a very small meet, no fees for either buyers or sellers, runs all year, and is from daylight (about 6:30 or so). Usually completed by 11 AM.

ROHNERT PARK (Sonoma County), CA

Second Sunday of each month, there will be an un-sponsored parking lot swap meet at HSC Electronics. The address is 5681 Redwood Dr. Time is from 9AM to 2PM. Bring your own tables/power. Restroom & soft drink machine in HSC store. Contact store Mgr. 707-585-7344 for directions. Please keep parking lot clean so we can continue to use the lot. Thank you.

TRW Swap Meet, LA Area Last Saturday of the month.

If you know of any local swap meets, be sure to send information to:

dcory@inreach.com

de N6KI, Dennis

Web Links

Internet Linked Repeaters
<http://ac6v.com/repeaters.htm>

ILINK -- Newest Rage
<http://www.aacnet.net/>

Transmitter Range
<http://www.artscipub.com/simpleton/simp.range.html>

53rd Annual International DX Convention April 26-28, 2002 Visalia, CA
<http://www.qsl.net/visalia2002/>

Fluidmotion Antennas -- Remote Adjustable Yagi
<http://www.fluidmotion.ws/index.htm>

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<http://ac6v.com/newsletters.htm>

GAP Super C Antenna - Interesting
<http://www.gapantenna.com/>

Stealth Antennas
<http://www.ac6v.com/>

AC6V Mega Ham Index:
<http://ac6v.com>

AC6V Book For Dxers:
<http://ac6v.com/dxsample.htm>

In San Diego County, a great operating aid is the full color maps made by Randy Buxton KF6ZPN of The Ramona Outback Amateur Radio Society for 2M, 220 MHz, 440 MHz -- just print them out in full color or B&W and place in the glove compartment or as a desk accessory.

<http://roars.net/repeaters.htm>

Jet Propulsion Laboratory Amateur Radio Club
<http://rptrlist.w6jpl.ampr.org/Main.htm>

73 From AC6V, Rod In Oceanside, CA

Editor's Column

scope@palomararc.org

I wish to thank all of the people who have submitted articles this month. If you didn't see yours, please be patient. I have it and will need it for future publications. It is a very demanding job to fill all of this space and make it interesting as well. If it bleeds over to the next page, then the process of filling a page starts all over. In any case, **don't stop sending!** Many have asked if they could see this or that

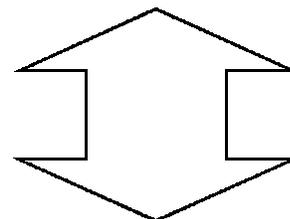
PARC NETS (3/02)

Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)
Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Nightly	>2200	147.130	Facetious Group
Saturday	2000	52.680	6Mtr ARES Net
Saturday	2015	147.130	ARES Staff Net

in the Scope, and to answer it frankly — **why not?**. Just send any suggestions or particular needs to me and I will consider them. However, I do not have the time to be a newsmen as well as your editor. So don't be surprised if you antiques are called upon to write articles for your compatriots in the hobby.

Articles in equipment and personal experiences could be very useful to those who haven't had the pleasure of experiencing for themselves as of yet. Myself, I have a full uplink/downlink satellite station and enjoy showing its operation. That new Fluidmotion antenna I put up is a thing to see. Not interesting to everybody, but some would be motivated to venture into satellite operations themselves or like to see what technology is new, just by seeing what others are doing. KC6UQH, Art, is a guru in microwave communications and always like to be helpful. Join him on the net on Monday nights. Engineers, students, mechanics, retired folk, we have them all. Let us know at your PARC meetings or a board meeting and we will look into your needs.

See, I rambled on and still didn't fill this space.



**73's and God Bless, NA6RS,
Ron NA6RS@amsat.org**

Jeff N6FRW

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