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ORANGE COUNTY AMATEUR RADIO CLUB

VOLUME XXXVII NO. 9 P.O. BOX 3454, TUSTIN, CA 92681 SEPT 1996

The Prez Sez.....

Summer's over. The kids are heading back to school, and the days are getting shorter and cooler. This is the time of year when a Ham's fancy turns to antennas, DX, conventions and contests. During the summer months there's a lot to do. The yard needs tending. There are pool parties, vacations and numerous other family events that require attendance. Then comes fall.

Soon, the Santa Ana winds will be blowing and, before you know it, the rain will be falling. Between now and then is a good time to get your antenna back into shape. If you've been planning on raising a new beam and tower, a vertical or just a dipole or inverted vee, September is your month. It's getting cooler, but the ground is still warm and the weather is good for digging that hole for the tower base.

Now that you have the antenna farm in good condition, and the cobwebs are blown out of the rig, it's time to checkout the bands. Yes, some of you will not experience the soft glow of those vacuum tubes as they warm the shack (Old Timers also remember the bright blue glow of the mercury-vapor rectifier tubes - they're probably considered an environmental hazard today). As the days grow shorter, the bands tend to get better, the atmospheric noise decreases, and hamming goes into full swing. We recently passed the bottom of the Sunspot cycle and conditions should begin improving over the next five years. Sure it will be noisy when the Santa Ana winds blow, but those signals will improve after a rain. Here's a little tip. Check your SWR during and after a rain storm. Keep an eye on whether the SWR changes much, and also on how long it takes to get back to normal. That can tell you just how well your antenna is weatherproofed.

CONTINUE.....



To improve your operating skills, there are lots of operating contests in the fall. A good reason to participate in some of these is to hone your skills for next year's field day. The Novice Roundup, the CQ-WW-DX contest and the Sweepstakes contests are three that come to mind. Later, there is the ARRL DX contest, and the CQ-PFX contest (my favorite when the "AF6" prefix was rare!) they provide opportunities to add to your DX count. Don't count out the Novice Roundup.. Here's a chance to be an Elmer, improve your CW capabilities and meet new novices (if they're nearby, be sure to invite them to club).

Finally, there is a Southwestern Division Convention to attend in October. This year's event is more than a short drive away, it's in Mesa, Arizona (a suburb of Phoenix), but easily reached by plane (Fly DC/MD Jets - a little ad!). More information on the convention is available in this issue of RF.

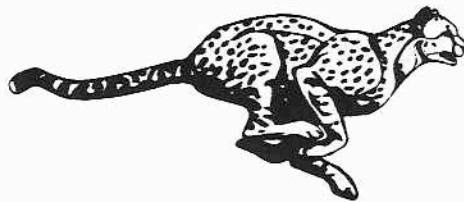
Oh, I almost forgot, October is the club auction so it's time to look over your ham and electronic gear and find a few items to convert to cash, or into different "Junk".

de Bob, AF6C (A Funny Six Call)

OCARC SEPTEMBER PROGRAM

"Amateur Radio Safari to Africa" by Art Goddard/W6XD

An international team of amateur radio operators recently completed an exciting radio/photo safari to South Africa and Swaziland. Operating with the special callsign of 3DAOZ, nearly 6,500 contacts were made in just 48 hours. Our speaker is Art Goddard, W6XD, Vice Director and a noted photographer who will narrate a slide presentation that captures both the challenge of DX contests and the fascination of South African wildlife.



NETNEWS

by Bob Evans, WB6IXN

8/7 15m phone net - W6ZE/AF6C checks in NGO, AD6B, VKZ, WOX, IXN, VDP, FMX, and TWA. NGO checks in wid weak sigs, and Kei can't hear NC...probably adjustments to the rig in the afternoon while Kei was working Kaz `across the puddle'! AF6C asks AD6B abt his future plans after the El Toro Marine Base closes, and VKZ says band condx better this week than last! And ZE asks Frank how his GPS adventures are proceeding. WOX is awaiting the `big insurance bombshell' to arrive after purchasing more autos in the family! The Golden years! *?...IXN, PFA, and VDP go to their doctors soon, and TWA bewails gout, hearing, etc.!! VDP says John, TK, is bk in town, and AF6C says `RF' is ready fer printing. FMX treats the family to dinner tonite, after Paul completes a catch-up day on house chores. And TWA works 3 days at the Orange County Fair.

8/7 2m phone net - W6ZE/IXN checks in RE, PZF, VFC, WN, QW, VDP, ZH, OPI, and FZE. RE tells OPs abt a new proposal fer hams to monitor RF radiation above 50 watts in their shacks. And Alex awaits biopsy reports on 2 skin spots. PZF takes XYL, kin & harmonic (in frm Albuquerque) to Disneyland, Sea World & the zoo. VFC says 6m open all day into NM, KS, and this evening into VE land, MT, ID, UT, NV, AZ, CO, etc. And Denny gets grid squares DN73, DN76, and DNO7 under his belt! And DXers note!...VFC now has his Awards Manager papers fer VHF awards fer W6ZE!! Wid exams done early, WN joins us on the net. Larry gets the tower base poured, edits and prepares this month's `RF' fer publishing, & plans to go to Ft. Bragg this weekend fer sum salmon fishing! QW has a `super-time' in Spokane, wid a harmonic in frm VE land. Rolf & XYL look at new mobile homes and the basement of the new QTH is contracted out. Rolf even got sum fishing time in!! VDP helps PFA wid the Club roster, and Larry gets a new cart assembled fer the computer...Now to talk wid QW abt a new printer! TAM takes a new antibiotic which results in a partially ruptured achilles tendon! ZH will stop at PFA's QTH & pick up `RF' fer printing, and Chris gets the new `QRM Squasher' done & working! Home fer a couple of weeks, OPI will be busy helping both girls get their license, & preparing harmonics fer school. FZE is ready for his Board of Review fer Star Scout...Congrats, Pat!

8/14 15m phone net - W6ZE/AF6C checks in NGO, IXN, VKZ, HHC, FMX, WOX, & XO. XO asks IXN to check him in fer the 2m net. The rig is still in the auto! NGO watches the Typhoon drench Japan, and Kei uses another rig tonite!...Gud sigs, too, Kei! AF6C says NGO fired up the rig fer QSOs `across the pond' last Sat. nite, and behold!...We had a blackout! And AF6C says a bomb cud hve caused the jetliner crash...BUT! IXN tnx AF6C fer saving the No. & So. Eq. reports fer him. VKZ says maybe a users group cud be formed in the Club. HHC & Diane travel to Pgh, PA., fer Diane's H.S. class reunion. Diane doesn't recognize anyone widout their name tags! Meantime, HHC rushes off to the airport to get bk to CA fer a business meeting, only to find that he has Diane's ticket instead of his own! Nw to fight wid the airline to get reimbursed fer additional expenses! And Ken talks wid W3IOP, one of our last FD contacts! FMX cures his 40m high SWR problem by shortening his coax lead-in by a couple of feet or so! WOX goes to the Swap Meet on Sat., and Art asks all OPs what they did during the `hour of lost power' last

weekend! PFA has been silent all week. AF6C will call the QTH and check on Tom after net, and rpt his condx to the 2m crew!

8/14 2m phone net - W6ZE/IXN checks in RE, VFC, VDP, PZF, QW, HHC, & AF6C. Wid the lawn dead, fence torn dwn, and air condxs running, RE tells OPs he assumes that previous skin biopsies are all OK! And RE informs OPs that ARRL VEC can service form 610s fer Call renewal & adr. changes fer ARRL members. And VFC works NOLL in KS on 6m during the Perseid meteor shower! The heat drives VDP frm the shack after net, but VDP manages to catch an amateur radio talk show on 12.160 at 3:00 pm. PZF is off to a landline, and later, VFC says PZF can hold the flash light while the XYL goes roof-side to do some ant. work! QW wishes he was in Spokane during this heat wave. It's too hot to work in the garage, but Rolf enjoys the lil air condx in his office! HHC says it was vy humid back in Pittsburgh, PA., and AF6C tells OPs that PFA just had heart artery bypass surgery at St. Jude's Hosp. Tnx fer the info., Bob!

8/21 15m phone net - W6ZE/AF6C checks in LDC, NGO, IXN, WOX, RE, & AD6B. LDC, VDP & VFC all attend the Santa Barbara Hamfest last Sat., where they enjoy a tri-tip barbecue lunch. NGO gets a new mower, and LDC fades in & out at IXN's QTH. IXN tells OPs that he will hve out-patient surgery fer a hydroseal in the left scrotum in the near future. AF6C says that PFA is home frm the hosp. Tom is a 'lil weak but doing fine! WOX 'holds dwn the fort' as the XYL, the harmonic, and mother-in-law enjoy a train trip to San Diego where they visit Marine Land & other points of interest! Now WOX asks how he might interrogate FCC database. RE supplies Art wid FCC # 1-800-322-1117 to discover why Art's new ticket has been over 2 mos. in arriving! AD6B has visitors at the QTH, and Art hails the successful launch of the JAS-2 ham radio satellite!

8/21 2m phone net - W6ZE/IXN checks in RE, LDC, NG7D, VFC, QW, VDP, & BWH. RE & XYL get a 6 mos. reprieve wid a gud rpt from the doctor! Alex informs the group abt the new Japanese JAS-2 ham satellite, and, informs OPs abt a new Govt. regulation that will require OPs to look closely at RF transmitters that operate at 50 Watts & above! IXN fills out his WRC-99 Survey frm QST and sends it in. LDC says Club shud investigate Amateur Radio Awareness Day (p. 26 in Sept. QST). BWH airs Newslne frm his FD setup at work...Tnx, Bob! Wid the bands dead, NG7D cleans the shack, catches up on computer projects and Church activities. VFC plans a trip to Oklahoma next week, and Dennis says 6m is open into TX tonite, wid thunderstorms & all the trimmings! QW dreams abt Spokane while detesting the high humidty & heat of So. CA.! IXN & brother gets bk frm a 4-day working vacation mending fence & pasture gate construction in Garner Valley, CA. VDP described the trip to & frm the Santa Barbara Hamfest last weekend. The traffic coming home was terrible!...Now Larry is off to the Phoenix ARRL Convention come Oct.!

8/28 15m phone net - W6ZE/AF6C checks in NGO, LDC, IXN, & VFC. NGO experiences QRN tonite...Insulators dirty on the HP lines, Kei? And NGO is contemplating a new set of tires fer the auto. LDC says the Democrats are spreading enuf fertilizer to care fer the crops abt 3 yrs. And VFC, running the Argonaut 509 at 50 W wid amplifier, tells IXN to hitch his wagon to the Spreader cause everything is `gonna turn green! LDC has some fading on his 2nd xmission, and Larry says he cannot hear IXN tonite! NGO wonders where HHC is tonite...probably too warm

in the shack, or HHC got caught up in the flow of fertilizer frm the Convention! AF6C says Tom, PFA, is up & about. We all wish Tom a speedy recovery! IXN gives the Web Page address fer the Public Seismic Network: WWW.PACIFICNET/~DARBY/INDEX.HTML (If you experience trouble bringing up the Page, try the address agn, dropping the 'L' off HTML). And NGO learns the secrets of growing green onions...He'll have a crop by Fall!

8/28 2m phone net - W6ZE/IXN checks in ZH and TAM, LDC, VDP, VFC, RE, & QW. Docs finally find a medicine that relieves the nausea frm TAM's ulcerated small intestine, although the new medicine causes itching and some double vision! And Chris finally works the VK0 on McQuary Is.! Then ZH tries out his CW in a QSO wid a Seattle OP! LDC promptly asks the whereabouts of McQuary Is.!...ZH says abt 660 mi. SW of New Zealand, in a place where IXN thinks we had an 8+ mag. earthquake abt 2 yrs ago! LDC has been busy wid teaching and real estate last week, & Larry will be off to VE8 land next summer. But now, a new ant., a \$99 work bench, and the 'Hee-Haw' Convention will keep LDC busy! Having worked JA1VOX/m on 6m frm Buena Park yesterday, VFC & grandharmonic will be off to Oklahoma City in his brother's truck tomorrow...Happy motoring, Dennis! VDP listens to the ham program on shortwave last Sun., and Larry says new RF measurements fer ham stations won't be as bad as it sounds! QW says concrete pouring fer the new QTH foundation in Spokane will start next week, and Rolf gets stung by a hornet as he rids his orchid enclosure of a nest!

Note -- How to obtain APRS Software
 BBS by Modem (410) 280-2503
 Internet: <http://www.cnet.com/~rwiikens/aprs.html>

1996 Board of Directors

President.....	Bob Eckweiler.....	AF6C.....	639-5074
Vice President.....	Ken Konechy.....	W6HHC.....	744-0217
Secretary.....	Chris Breller.....	KJ6ZH.....	(310) 925-9127
Treasurer.....	Bob Buss.....	KD6BWH.....	534-2995
Activities.....	John Meacham.....	KJ6TK.....	842-4702
Membership.....	Tom Thomas.....	WA6PFA.....	771-2917
Public Relations.....	Frank Smith.....	WA6VKZ.....	838-3180
Tech Committee.....	Larry Beilin.....	K6VDP.....	557-7217
Member at Large.....	Cindy Hughes.....	KC6OPI.....	971-3448
Member at Large.....	Kei Yamachika.....	W6NGO.....	538-8942

CLUB APPOINTMENTS

Club Historian.....	Bob Evans.....	WB6IXN.....	543-9111
W6ZE Trustee.....	Bob Eckweiler.....	AF6C.....	639-5074
RF Editor.....	Bud Barkhurst.....	WA6VPP.....	774-6361
Refreshments.....	Jane Breller.....	KC6TAM.....	

DUES

Regular Members.....\$12.00...Additional Members.....\$6.00 each
 Teenage Member.....\$ 6.00...Optional Club Badge.....\$5.00 each
 Dues for new members are pro-rated quarterly from January 1st each year.
 Family members must reside at the address of a regular member. One RF is sent per household.



1996 ARRL Southwestern Division Convention



October 11 - 13, 1996

Mesa Convention Center Center Street and University Mesa, Arizona
Hosted by the **Scottsdale Amateur Radio Club**

For the latest information regarding the convention, call (602) 351-3988 or e-mail the registration chairman, Michael Petera, KJ7KS, at 76402,1774@compuserve.com or mpetera@aol.com. Check our Internet Link at <http://www.getnet.com/~davidh/cadxa.html>.

Your confirmation, along with the latest information regarding the convention, convention events, convention accommodations at the Sheraton Mesa (host hotel adjoining the Mesa Convention Center) and Phoenix area activities, will be sent to you upon registration. Please make your Sheraton Mesa Hotel reservations early to secure our special rate. Call (602) 898-8300 and ask for the Amateur Radio Block.

.....Cut here and return this form.....

1996 ARRL Southwestern Division Convention

Registration Form

Name (Please print or type) _____ Call Sign _____

Mailing Address _____

City _____ State _____ ZIP _____ Club _____

Additional Guest _____ Call Sign _____

Additional Guest _____ Call Sign _____

(Additional guest registration is at the same rate. Children under age 14 are free).

	<u>Number of Attendees</u>		<u>Total</u>
Pre-Registration (by September 11, 1996)	_____	@ \$12	\$ _____
General Registration	_____	@ \$15	\$ _____
Banquet (Chicken Marsala)	_____	@ \$25	\$ _____
Sen. Goldwater's Shack (Bus Tours at Various Times)	_____	@ \$ 5	\$ _____
Wouff Hong	_____	@ \$ 2	\$ _____
		Total Enclosed	\$ _____

Make your check payable to the: 1996 ARRL Southwestern Division Convention
P.O. Box 10878
Scottsdale, Arizona 85271-0878



Sanctioned by the Amateur Radio Council of Arizona

US AMATEUR BANDS







December 20, 1994

US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W. Power for all license classes is limited to 200 W in the 10,100–10,150 kHz band and in all Novice subbands below 28,100 kHz. Novices and Technicians are restricted to 200 W in the 28,100–28,500 kHz subbands. In addition, Novices are restricted to 25 W in the 222–225 MHz band and 5 W in the 1270–1295 MHz subband.

Operators with Technician class licenses and above may operate on all bands above 50 MHz. For more detailed information see The FCC Rule Book.

KEY

-  = CW, RTTY and data
-  = CW, RTTY, data, MCW, test, phone and image
-  = CW, phone and image
-  = CW and SSB
-  = CW, RTTY, data, phone, and image
-  = CW only

- E = EXTRA CLASS
- A = ADVANCED
- G = GENERAL
- T+ = TECHNICIAN PLUS
- T = TECHNICIAN
- N = NOVICE

** Geographical and power restrictions apply to these bands. See The FCC Rule Book for more information about your area.

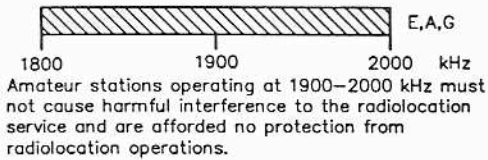
Above 23 Centimeters:

- All licensees except Novices are authorized all modes on the following frequencies:
- 2300–2310 MHz
 - 2390–2450 MHz
 - 3300–3500 MHz
 - 5650–5925 MHz
 - 10.0–10.5 GHz
 - 24.0–24.25 GHz
 - 47.0–47.2 GHz
 - 75.5–81.0 GHz
 - 119.98–120.02 GHz
 - 142–149 GHz
 - 241–250 GHz
 - All above 300 GHz

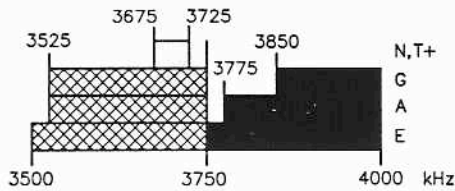


For band plans and sharing arrangements, see The ARRL Operating Manual or The FCC Rule Book.

160 METERS

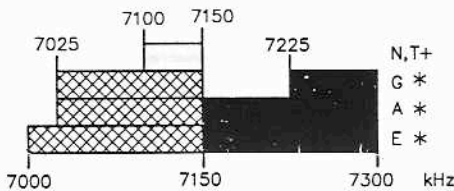


80 METERS



5167.5 kHz (SSB only): Alaska emergency use only.

40 METERS



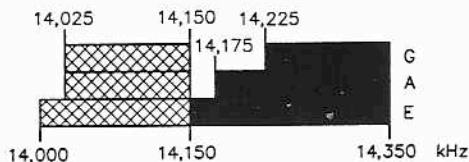
* Phone operation is allowed on 7075–7100 kHz in Puerto Rico, US Virgin islands and areas of the Caribbean south of 20 degrees north latitude; and in Hawaii and areas near ITU Region 3, including Alaska.

30 METERS



Maximum power on 30 meters is 200 watts PEP output. Amateurs must avoid interference to the fixed service outside the US.

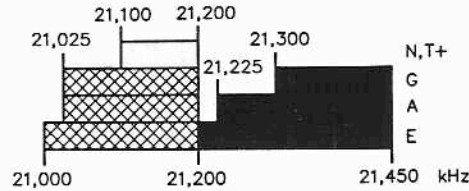
20 METERS



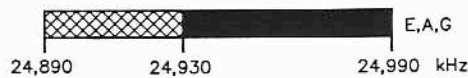
17 METERS



15 METERS



12 METERS



10 METERS

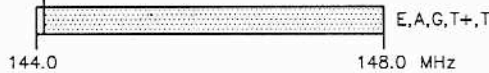


Novices and Technicians are limited to 200 watts PEP output on 10 meters.

6 METERS



2 METERS

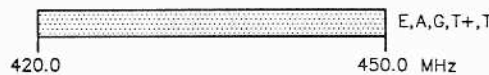


1.25 METERS



Novices are limited to 25 watts PEP output from 222 to 225 MHz.

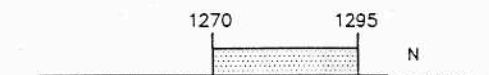
70 CENTIMETERS **



33 CENTIMETERS **



23 CENTIMETERS **



Novices are limited to 5 watts PEP output from 1270 to 1295 MHz.

Club Nets

<u>Band</u>	<u>Mode</u>	<u>Day</u>	<u>Local Time</u>	<u>Freq. Mhz.</u>	<u>Net Control</u>
15 Meters	SSB	Wednesday	7:30 P.M.	21.375*	AF6C
2 Meters	FM	Wednesday	8:30 P.M.	146.550 Simplex	WB6IXN

(Listen for W6ZE, Net Control)

* Plus or Minus QRM

General Meeting

SEPTEMBER 20
OCTOBER 18
NOVEMBER 15

General meeting is the third Friday of each month, 7:30 P.M., at the AMERICAN RED CROSS facilities.
601 N. Golden Circle Dr. , Santa Ana, CA
Major cross streets: Fourth Street and Tustin Ave.
Talk-in frequency 146.550 MHZ. simplex.

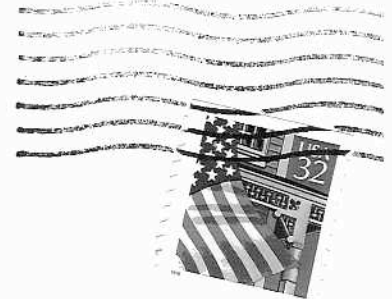
Board Breakfast

SEPTEMBER 7
OCTOBER 5
NOVEMBER 2

Board Meeting is the first Saturday of each month at 8:00 A.M. The Wildflower Restaurant - members and visitors are welcome.
2525 N. Grand Ave., Santa Ana, CA
Exit the 5 freeway at 17th St., go east to Grand Ave. Go north on Grand; or exit the 22 Freeway at Glassell/Grand. Go south to restaurant.



Orange County Amateur Radio Club, Inc
P.O. Box 3454
Tustin, CA 92861



First Class Mail

To:

**Your Personal
Copy**

**Time Dated Material
PLEASE RUSH**

