

DXer



NORTHERN CALIFORNIA DX CLUB

Inside

President's Comments	2
Board of Directors	
Meeting Minutes	2
General Meeting Minutes	3
Solid State Timer	3
Radiofest 2002	4
IDXC-Visalia 2002	4
February Program Information	4
Map and Directions to Meeting	4
Recent 9 Band DXCC	
Award Participants	5
W6KM's Solid State Timer	5
5U/12UY Operation	5
IRC Cost Increase	5
DX News	6
N6TQS On the Go!	6
URL's from W6ISQ	6
DXer Profile:	
Jim Golden, K6LM	7
SCDXC 2002 Officers	7
Editor's Choice	7
Kudos 'n Kredits	7

DXer Profile: K6LM, Jim Golden



K6LM's "Lobster Mobile"



The Antennas at K6LM

True "Arm Chair Copy" from the "Arm Chair" Two Meter Rig. That's K6LM, Jim Golden at the mike. (See Story on Page 7.)



Main Operating Position at K6LM



The Bedside Station (See Story)

General Meeting February 14, 2002

**Harry's Hof Brau
1909 El Camino Real,
Redwood City**

(See Page 4 for Driving Directions)

Program



**Eric Swartz, WA6HHQ
An Exciting Discussion of
Receiver Designs with
Demonstrations & Comparisons**

**Social Hour .. 6:00 P.M.
Dinner 7:00 P.M.
Meeting..... 8:00 P.M.**

N O R T H E R N
C A L I F O R N I A
D X C L U B

Club Officers:

President: Chuck Patterson, K6RK
 Vice Pres: Jerry Griffin, K6MD
 Secretary: Ron Panton, W6VG
 Treasurer: Ben Deovlet, W6FDU
 Director: Dick Letrich, W6KM
 Director: Rolph Stoddard, W6TWO
 Director: Bud Bane, W6WB

The DXer:

Editor: George Allan, W6YD
 719 Ruddy Court
 Los Banos, CA 93635
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<http://www.ncdxc.org>

DX Ladder: John Kelly, KG6XF

9-Band Award: John Brand, K6WC

Contests: Doug Westover, W6JD

California Award: Robert Bickel, K6FX

Historian/archivist:

Records Manager: Ron Panton, W6VG

Publications Mgr: Ron Panton, W6VG

Club Repeater, W6TIR

Frequency/offset: 147.36 MHz, +/-

Trustee: Bob Vallio, W6RGG

Control Operator: Robert Smithwick, W6CS

Club simplex: 147.54 MHz (suggested)

Thurs. Net OTR: 8 pm local time.

Net Manager: Randy Wright, W6CUA

DX News: Net Control Operator

Swap Shop: Ben Deovlet, W6FDU

QSL Information: Mac McHenry, W6BSY

W6TI DX Bulletins:

W6TI Station Trustee Bob Vallio, W6RGG, transmits DX information at 0200 UT every Monday (Sunday evening local time) on both 7.016 and 14.002 MHz.

Club address: Box 608
 Menlo Park, CA
 94026-0608

The DXer is published monthly by the Northern California DX Club and sent to all club members. Unless otherwise noted, NCDXC permits re-use of any article in this publication—provided The DXer and the article's author are credited.

President's Comments



Your board met last Saturday, January 26th. As usual, nearly every member was in attendance. Among other things we agreed to once more have a picnic probably in July. Dick, W6KM has agreed to organize this event as he has in the past. He and XYL pat have done a great job in the past. Dick says he must have cooks so he can stay out of the smoke! Plan to come and plan to volunteer.

We also agreed to have a Christmas party - possibly a daytime event. Stay tuned! The February 14th General meeting will be at Harry's in Redwood City and will feature Eric Swartz, WA6HHQ, co-founder of Elecraft. Eric will demonstrate the latest products (including the 100 watt version?) and will present interesting comparative data on various modern receivers. I'm looking forward to this one.

DX-wise, the gang is on from South Georgia. Last night they were heard and worked on 80 CW, 40 SSB, 20 SSB, and 15 CW. I'm looking for them on 10 and 12. Good hunting and 73. Chuck, K6RK.

Board of Directors Meeting Minutes

NCDXC Board Meeting, NCDXC, January 26, 2002

Meeting convened at 10:05 A.M. by Prez, K6RK, Chuck Patterson. Location was the home of W6VG. Present were K6RK, Chuck Patterson; W6FDU, Ben Deovlet; W6VG, Ron Panton; W6KM, Dick Letrich; W6WB, Bud Bane; W6TWO, Rolph Stoddard; and W6YD, George Allan. First order of business was a discussion on DXer advertising. DXer editor will bill HRO annually for back page ad. Procedures manual charges will be followed. Estate sale or sale of incapacitated NCDXC member's equipment will be no charge for 1/3 page. Club secretary will write letter to HRO re: contribution to defray roster printing and mailing. Future meetings were discussed with Ben, W6FDU. We are pleased to have 1995-1996 club member WA6HHQ, Eric Schwartz, founder of Elecraft for the February meeting Program. Eric was also on the NCDXC board of directors during those years. Many possible programs were suggested by Bud Bane, W6WB and George Allan, W6YD. W6FDU & K6MD are looking at other possible pro-

Continued - Next Page

NCDXC Dues Information

Full and Associate Members:

<u>Date Dues are Paid</u>	<u>Member</u>	<u>Family Rate</u>
1 July thru 30 September	\$24.00	Plus \$15.00
1 October and after	\$24.00	Plus \$15.00

*Members who have not remitted dues by the 30 September deadline are considered dropped from the membership rolls. Those desiring to renew membership may do so anytime, but will not be included in the new issue of the NCDXC Roster.

Absentee Member Dues are \$16.00 per year.

BoD Meeting Minutes (Cont'd.)

grams with aid of ARRL. The board unanimously thanked Ben Deovlet, W6FDU for his great help to the club in a multitude of ways. Club picnic will be held again, this year. It will be organized by W6KM, Dick Letrich with the help of BBQ cooks W6YD, George and W6VG, Ron. W6FDU & K6TS will nail down our former location. Prez, K6RK will contact Randy, W6CUA and make sure the accurate info re: club meeting dates and place is given to all the volunteer net emcees. The Xmas party was discussed and the possibility was given much thought re a Saturday lunch. Several of the local radio clubs have found this works very well. Also, considered was the possibility of the club partially subsidizing the meal cost for NCDXC members attending.

Two financial accountings of the 2001 Xmas party were presented by Ben, W6FDU, a hypothetical, excluding entertainment, and the actual accounting. There was much discussion on these accountings. The board also discussed whether or not to have a raffle at the picnic and the possibility of holding a joint meeting with the NCCC. Meeting adjourned at 11:50 A.M.

Respectfully submitted, Ron Panton, W6VG, Secretary.

General Meeting Minutes

MINUTES OF NCDXC MEETING JANUARY 10, 2002

The usual meeting place (Harry's Hof Brau, Redwood City) was the site for the January meeting of the NCDXC on January 10, 2002. After eating from the wide choices of food and imbibing our favorite liquid beverage, the meeting was called to order at 7:37 P.M. by president K6RK, Chuck Patterson. Guests were introduced, and compliments were given Art Thal, KA6WIF on his upgrading from Associate to Full Membership, Extra Class license, and DXCC. Nice going Art! Much thanks must be given to our treasurer Ben, W6FDU for providing the equipment and video of the DXpedition to Baker/Howland Islands. Our treasurer must be thanked by all for doing these multifarious duties. The next meeting of the NCDXC board of directors is tentatively set for January 26, 2002, at Qth of W6VG. Meeting adjourned at 8:47 P.M.

Respectfully submitted, Ron Panton W6VG, Secretary



The Deserving

Solid State Timer

Never Needs a Power Source or Battery!

We like to think that we are really on the cutting edge of technology and yet many items have been around for centuries. You know that as Hams we are required to identify at the start and every 10 minutes we are on the air. Today we have lots of ways to keep track of that time. Maybe you have a mechanical timer or you set your digital watch to sound off every ten minutes whatever you use is of course best for you, but I have the VERY BEST way of keeping time and let me assure you it is really accurate! It was made available back in the days of all all tube type rigs by the RCA Company when it was owned by America. It is fool proof (it had better be for this fool to use). It never causes RFI. It's quiet and operates silently. This unique timer was given to me by Frank Glass, K6RQ on April 5, 1986 and shows no signs of wearing out. It is a treasure that I am proud to use and display in my shack. In fact, I handle it carefully so as not to break it.

But you wish you had one too!

Dick, W6KM.

(You can see a picture of this mysterious little jewel on page 5. -Ed.)



Radiofest 2002

Radiofest 2002 in Monterey is sponsored by the Navel Postgraduate School Amateur Radio Club. It will be held this year on Feb. 23rd in the General Stilwell Community Center at Ford Ord/CSU Monterey. Take the **Fort Ord** and **CSU Monterey Bay** exit from Highway One. The exit puts you on **Light Fighter Drive**, and you will begin to see road signs directing your way. At the first traffic light, take a right on to **First Avenue**. Continue to the next stop sign, and take a left on to **Gigling Road**. Continue up the hill. You'll see the **General Stilwell Community Center** on the right. If you get lost, talk in is available on **K6LY 146.97 (-600Hz) PL 94.8**.

Complete information is available at www.k6ly.org/radiofest or contact Brian Broggie, W6FVI (email: w6fvi@arrl.net).

This is a really fun event that W6YD and I have attended for many years and hope to attend again this year. Look for you there.

73, Dick, W6KM

IDXC-Visalia 2002

The preregistration deadline for IDXC 2002 is fast approaching. The dates for the convention are April 26-28, 2002 and the pre-reg deadline is March 15th. This year's event is being sponsored by the SCDXC and will be held (as usual) at the Holiday Inn Plaza Park in Visalia. Registration includes:

- Hosted cocktail party

- All HF, Low-Band, and DX oriented forums and technical sessions.

- Convention Patch.

- Saturday night Banquet & DX program Featuring a well known speaker.

- Sunday morning breakfast buffet with speaker.

- Pre-registration (Postmarked before March 15, 2002) drawing for a super prize.

- For details see the convention web site at: www.qsl.net/visalia2002

February Program Information

Eric Swartz, WA6HHQ, will present a two part program. Eric, and Wayne, N6KR (of Wilderness Radio fame) are co-owners of Elecraft Corporation, located in Aptos, CA. Elecraft offers a line of high performance QRP transceivers and accessories. Their K-1 and K-2 transceiver kits capture the excitement of building and operating your own full-featured HF radio. The latest introduction to the Elecraft line is the 100 Watt version of the K-2 transceiver. Eric will present this new transceiver along with the other rigs in the Elecraft line.

The first part of the program will be a hands-on demonstration of these rigs. The second part of the program will be Eric's presentation of the design and performance considerations and tradeoffs of high-performance receiver design. This highly informative analysis is easy to understand and contains no challenging mathematics. Included is a comparison of performance characteristics of several popular high performance rigs.

Don't miss this outstanding presentation! Along with Eric's ELECRAFT presentation there will be the regular meal, business meeting, roundtable discussion, and the renowned NCDXC social hour. See y'all there!

73,

Ben, W6FDU

There have been many outstanding reviews of the exciting Elecraft product line. The most recent of these appeared on page 100 of the January 2002 issue of QST. You owe it to yourself to come check out the design and fondle these hot little transceivers. -ED

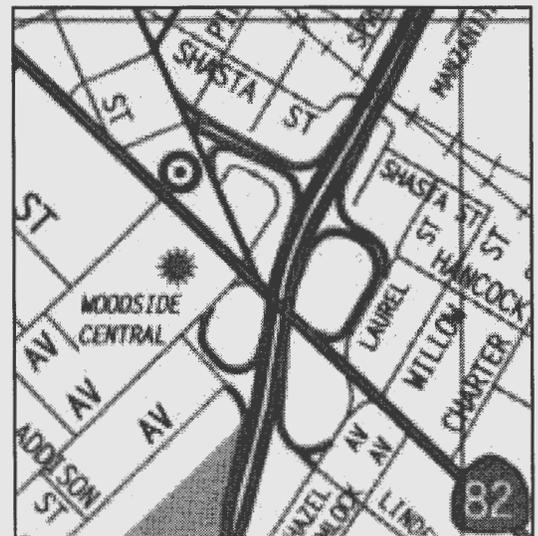
Map and Directions to Meeting

Harry's Hof Brau is fairly easy to find. It's on El Camino Real, just north of Woodside Road (Highway 84).

From Highway 101, take the Woodside Road (Highway 84) West exit to the El Camino North exit. Follow that exit (a short distance) toward El Camino to the stop sign at Main Street. You will practically be in Harry's parking lot! It will be right across the street on your left.

From Highway 280, take the Woodside Road East exit and follow it to the El Camino North exit. Harry's will be on your right just past the underpass.

There are parking lots on both sides of the building. So, if one lot is full, just try the other one.



Recent 9 Band DXCC Award Participants

By John Brand, K6WC

At the end of last year we had 5 participants in the 9 Band DXCC Award Program. A new plaque was issued to Anthony Bryce, K6DY and endorsements to Ray Balch, K6VX, Jerry Dowell, AI6L, Steve Lund, K6UM, and Gary Stilwell, KI6T. Endorsement levels requested by these deserving DXers are as follows:

Call	160	80	40	30	20	17	15	12	10
AI6L			300	270				250	
K6DY					100				100
K6UM								200	
KI6T		100	200	200	290	250	280		250
K6VX	150		300	250		300	300	270	290

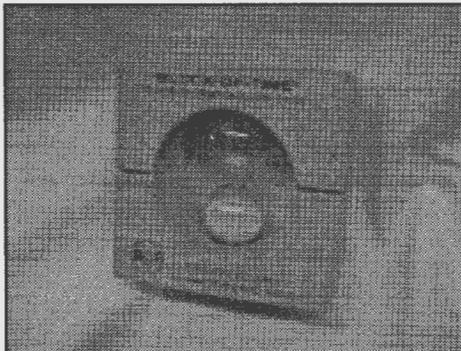
This year's over achievers look to be Gary and Ray. In a note, Ray reported finally receiving his 5BWAZ award after a 10-year struggle. Congratulations, Ray!

I am still receiving requests for a comparative list of endorsements for all participants in the program. I believe this program is being confused with the DX Ladder but I will cave in on this issue. I have not kept a proper accounting of the statistics. It has been my understanding that the award was set up for the DXer's own personal enjoyment. To my knowledge, running totals have never been posted although annually I have posted the plaques and endorsements requested during each year.

Since it will be quite a job to construct an accounting, it will be several months before I can put one together. I am sure it will not be an accurate accounting so those who are truly interested will be welcomed and encouraged to send in corrections.

73 es Good DX in 2002, K6WC

W6KM's Solid State Timer



5U/I2UIY Operation

George OM:

Here is an email I just got from I2UIY telling of the equipment his Italian group will take to "5U". This list shud make all "6" DXers breathe easier. That group shud be heard!

73 Jack, W6ISQ

Subj: Re: 5u

Date: 01/18/2002 12:40:37 PM Pacific Standard Time

From: i2uiy@cqww.com (I2UIY)

To: JMTROSTER@aol.com

Hello Jack!

...Bands are really VERY good. We will have at least 500/600 W output on all bands. A Titanex 27m high vertical on 80/160 with 1KW, a 4el 6-bands and a 3el 6-bands, a 40/80 vertical, 2 rx beverages and a TH6. Six operators will be active (almost) around the clock (we have to cook and eat, too!). I guess that we will be an easy QSO for everyone who has an antenna.

Have fun!

Ciao de Paolo

IRC Cost Increase

The following information was sent to us by Phil Nunez via W6KM. It should be of interest to all DXers. -Ed.

Here is some info for the "Deserving". I bought some IRC's this morning. They now cost \$1.75. The post office sells you the old IRC (\$1.05) and sells you a \$0.70 stamp. You install it on the bottom left corner and then they stamp it.

Hope this helps someone as the old \$1.05 needs the \$0.70 stamp and must be re-stamped.

Phil, AC6HY

You might want to check out the Ohio Penn DX (www.papays.com/opdx.html) Bulletin #546 under "QSL News & Info". Wolff, DJ5JH tells us "one 'green stamp' doesn't always cover the cost of 1st class return postage". -Ed.

DX News

P5, NORTH KOREA (From the Ohio Penn DX Bulletin)

Ed, P5/4L4FN should be back on the air in several weeks, maybe sooner. He is going to build the Butternut Vertical and test it. However, due to the severe cold weather, it might take him awhile to mount the antenna on the roof. Operations should be on 15m phone. The Bencher Keyer is going to be tested and so is Ed's keying ability. When he is comfortable, CW operations will begin and the band will be announced.

Great News! Toma, YU1AB, informs OPDX that Hrane/YT1AD and Voja/YU7AV returned from P5-land (December 26th). He reports that they have received a license to operate from P5, together with two other operators starting March 5th, 2002. In return, Hrane and Voja will instruct future Korean ham radio operators (a minimum of 20 novice operators). Their callsigns are not known. More details later

YA, AFGHANISTAN (From the Ohio Penn DX Bulletin)

Nick, G4KUX, has been active as G4KUX/YA and usually on 20 meters. Reports indicate that he is there working and setting up an international communication network. Also reported is the ARRL has NOT received any documentation from Nick. So WFWL. He is expected to be here for a while. Watch 14198 kHz after 0330z.

Major DX-Peditions & Operations (From NG3K's Web Site (<http://cpcug.org/user/wfeidt/Misc/adxo.html>) Includes Current and Future Operations with dates beginning thru February & March.

Afghanistan, YA5T - Jan 31 to Mar 31 - By S53R; limited activity; low power levels; ON4WW also in country for 2 weeks fm Jan 31 - QSL to KU9C.

Laos, XW3QBR - Jan 21 to Jul 31 - By IN3QBR fm Vientiane.

T32IR, VK3DK - Feb 03 to Feb 17 Eastern Kiribati - By VK3DK fm Christmas Is; HF bands; QSL to VK3DK, PO Box 1068, Croydon 3136, Australia.

Niger, 5U - Feb 03 to Feb 18 - by I2UIY - Call TBA - 7 operators; 160-6 M; CW SSB RTTY PSK31; 3 stations (See <http://www.qsl.net/niger-2002/> for complete info).

South Orkney Islands, VP8SIG - Feb 27 to Mar 02 - By GM0HCQ fm Factory Cove, Borge Bay, Signy Is (See <http://www.qsl.net/gm0hcq/vp8sgk&.htm>)

Midway Island, KH4 - Mar 03 to Mar 16 - By DL2VFR, DL2RUM as KH4/homecall; 160-6m; CW SSB RTTY; QSL home call - OK direct or via DARC Buro.

South Georgia, VPSGK - Mar 04 - Mar 06 - By GM0HCQ fm King Edward Point, Cumberland Bay West (See <http://www.qsl.net/gm0hcq/vp8sgk&.htm>).

Vanuatu, YJ - Mar 04 - Mar 15 - By F6COW, F6EPY as YJ0AOW and YJ0APY fm Efate and Espirito Santo (OC-035); focus on EU on 80 + 40m + WARC bands; mainly CW + digital modes; QSL OK direct or via REF Buro (See <http://perso.wanadoo.fr/dominique.auprince/mp2.htm>).

Ducie Island, VP6 - Mar 12 to Mar 30 - By VP6TC, VP6DB, VP6AZ, VP6MW, VP6BK/JA1BK, JF1IST, JA3USA, K9AJ, K5VT; 160-6m; SSB CW RTTY; beacon on 50.110 mHz; QSL HF via VE3HO and 6m via JA1BK; exact dates of operation are uncertain. (See <http://www.qsl.net/wd4ngb/ducie.htm>).

San Felix Island, XR0X - Mar 12 - Mar 30 - By NP4IW + 11 international ops - QSL to N7CQQ. (For more info see <http://www.cordell.org/SFX/>).

Vietnam, 3W - Mar 14 to Mar 16 - By F6BUM fm Tam Is (AS-157); CW SSB.

Vietnam, 3W - Mar 21 to Mar 23 - By F6BUM fm Cham Is; CW SSB.

Continued -Top of Next Column

Temotu, H40 - Mar 28 - Apr 12 - VK1AA - By VK1AA; 160-6m; CW SSB RTTY (For complete info see <http://www.qsl.net/vk1aa/temotu/>).

Midway Island, W4M - Mar 30 - Apr 06 - By G3RTE fm OC-030; 40-10m; CW SSB; focus on Europe - QSL to G3SWH.

N6TQS On the Go!

The following should be comforting to RTTY fans. According to the Ohio Penn DX Bulletin #545, our own Doug Faunt, N6TQS will be one of the operators going on the DXpedition to Baker Howland, KH1 in April. When I checked this out with him, Doug not only confirmed it, but also informed me that he will be going to San Felix, XR0X in March. Now there's a "man on the go"!

Good luck, Doug and keep an eye out for NCDX'ers.

URL's from W6ISQ

Here are a couple of interesting URL's that Jack Troster, W6ISQ sent to us. His messages are self explanatory.

George: Here is an address that should be of interest to DXers.

www.sgssi.com

It is about the gov't of So. Sandwich and So. Georgia. Interesting.

73, Jack, W6ISQ

Mawnin' George:

Here is sumpin you might like to make reference to in the DXER sometime. This was sent to me by Larry, W6OD, who suggested you might like to reference it in the DXER.

"So you Want to be a DXER". Go to:

www.qsl.net/aa0mz/dxer.htm

It's much too long to print in DXer, but might be of interest for a person to read - especially if new to DXing.

73, Jack, W6ISQ

(From what I hear on the bands, it is ALSO applicable to some not so new DXers -Ed.)

DXer Profile: Jim Golden, K6LM

50 PLUS YEARS as a Ham and only two US calls. That's what Jim Golden, K6LM has had in the USA. He was originally licensed as W1SSX in March of 1950! But, he has held and used calls in over 10 other countries.

To say that Jim is an ardent Ham Operator is putting it mildly. Hopefully, the pictures will confirm this. One of them shows his setup for operating 2 Meters from his easy chair. It has a tuned vertical attached to his reading lamp. There is also a picture of a full bedside station, where he spent many hours recovering from several heart related operations and didn't want to miss out on any of the action. I'm happy to report that Jim says he is feeling just fine. He also has two more stations set up in his well equipped shack. Again, I hope the pictures will do it justice. One of the pictures of his SUV, known as the Lobster Mobile (he's originally from Maine) shows his HF antenna.

I was really surprised to see his linear is an old Hunter Bandit 2000C, as I once had a slightly different version of the same model. His main rig is a TS-850. He also has a TS-830 and yet, another which is a TS-820 with the matching receiver. And, if that isn't enough, he has an INDEX LABS PLUS rig for his QRP work.

His antennas are a Classic 33 at 55 feet, a 75 Meter Delta Loop, a W3DZZ multi-band and a DX77 Vertical, to mention only the big ones. His country count is 345 and that is in 3 modes! He has them all, except for Yemen on CW and, of course, as most of us, the P5. Many of us are keeping our fingers crossed that P5/4L4FN will count. So is Jim!

I would be remiss if I didn't recognize and give credit to Jim's XYL for her understanding of his passion for Ham Radio. Now that he is back on his feet, he is going to get back into his RV'ing. And, I can assure you, he has it all set up for HF'ing. Thanks, Jim for the nice visit.

73 Dick, W6KM

SCDXC 2002 Officers

The following elected amateurs will serve as officers in the Southern California DX Club (SCDXC) for 2002:

President	Skip Bolnick,	KJ6Y	kj6y@aol.com
Vice President	Herb Rosenberg,	KG6OK	kg6ok@pacbell.net
Secretary	Jim Shryne,	N6DHZ	n6dhz@qsl.net
Treasurer	Cathy Gardenias,	K6VC	k6vc@arrl.net
Membership	Harvey Shore,	K6EXO	k6exo@arrl.net
Director	Charlotte Iseda,	KB6FXS	kb6fxs@aol.com
Director	Larry Mallek,	K6YUI	k6yui@ix.netcom.com
Ex Officio	Chuck Constantine,	KR6C	kr6c@juno.com

Official mailing address for all SCDXC correspondences during 2002 will be:

Southern California DX Club (SCDXC)
Attn: James Shryne, N6DHZ, Secretary
10301 Maybrook Ave.
Whittier, CA 90603-2620
Email: n6dhz@qsl.net

The SCDXC Web site is at: <http://www.scdxc.org>.

Editor's Choice

As many of you already know, I was off the air for a long time. I got back on the air last August and I have to tell you, it was quite a change. It is absolutely incredible to me that many DXers don't seem to understand DXing - or maybe they choose to ignore the rules of good operating practice. We, as a species, were endowed by our Creator with two ears and only one mouth. But how few of us take time to listen?

Take as an example, the recent activity surrounding P5/4L4FN. He's operating split - transmitting on 28580 and listening between 28590-28595. Now who in their right mind would expect P5, the most wanted country on every list to be working alone with no takers? **You have to listen!** Then you find out he's listening up. Or, if you don't feel like waiting, for him to say where he's listening, look around for the pile-up. But **you have to listen!** What about "wrong VFO"? You hear that all the time on split operations. If you're working split and don't hear the DX, why are you calling? **You have to listen!**

So, I think everyone could benefit by reviewing the web site sent to us by Jack Troster. It has a LOT of good suggestions in it - including listening!

73, George, W6YD

Kudos 'n Credits

This month's issue was made possible by articles and input from the following sources:

ARRL DX Bulletin
NG3K, Bill Feidt's Web Site
OPDX Bulletin
QRZ DX
AC6HY, Phil Nunez
W6ISQ, Jack Troster
W6KM, Dick Letrich
K6RK, Chuck Patterson
I2UIY, Paolo Cortese
W6VG, Ron Pantan

Thank you, one and all!

George, W6YD

12 Store Buying Power!



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 Sun, 11:00 AM - 5:00 PM
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ALINCO



ALINCO

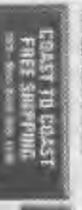
TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
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 128 Channels
 10W Power
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TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!

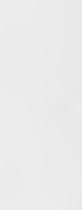
TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



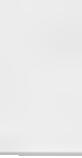
TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



TA-87A21
 2-Channel Handheld
 144MHz VHF
 128 Channels
 10W Power
 Call Now For Low Price!



DXer

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