

Northern California DX Club DXer



Volume XLIII - Number 6

June, 1990

EDITORIAL

I hope you enjoy this and upcoming issues of the DXer. Contributions are the lifeblood of any successful newsletter. This issue contains contributions from several sources. Contributions can be on any of the usual Mac Word Processing programs such as Microsoft Word or MacWrite II. Contributions from the IBM world can also be processed with ease if they are on a 3.5" disk, with a little less ease on the 5.25" format. Plain text is preferred. My internet address is dbeck@unix.sri.com and I will be happy to accept contributions via e-mail.

Technically, this issue was laid up using Pagemaker 3.1 on a Macintosh II, and printed on a Hewlett-Packard DeskWriter. The masthead was created using the Bold Bodoni Outline font and a cut from a map that was edited by hand to provide the fill. Column headers are in Helvetica Outline, body font is Palatino 10pt.

I hope support continues to run high for the publication and I am looking forward to getting as many club members into print as possible. 73 K6ZX

NEXT MEETING

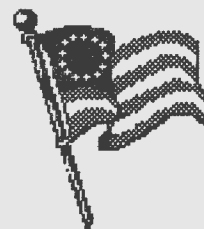
The next meeting is scheduled for June the 8th. The meeting will be held at the Royal Palace restaurant in Los Altos. The Address is 4320 El Camino Real near San Antonio Road. Attitude adjustment is 6:00 P.M. with dinner served promptly at 7:15. The program and club business will begin about 8:00.

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SPECIAL INSERT ... The DX Ladder

ANNOUNCEMENT



*All members and Friends of the
NCDXC and NCCC
are invited to a
4th of July Party
at the residence of W6QL and W6KG,
5200 Panama Ave., Richmond, Ca
2 to 5 p.m.
the theme is
French Polynesia (FO8)
There will be FOOD, FUN, MUSIC.
View the largest QSL collection in the WORLD!
VISIT the Stairway to Heaven and Hell!
PRIZES! FLOWERS!*

CLUB INFORMATION

THE NORTHERN CALIFORNIA DX CLUB, INC., PO BOX 608, MENLO PARK, CA 94026

The DXer is the bulletin of the NCDXC and is published monthly for the benefit of its members. Permission to use any portion of this publication is hereby granted, provided credit is given to the DXer.

NCDXC OFFICERS

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Vice President: Larry Souza, KG6GF
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Director: John Cronin, K6LLK

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NCDXC REPEATER W6TI/R

Output 147.36 Mhz, Input 147.96 MHz
Trustee: Bob Vallio, W6RGG
Repeater Committee Chairman:
Smitty Smithwick, W6JZU
Suggested simplex freq.: 147.54 MHz

NCDXC THURSDAY NIGHT NET

On W6TI/R Thursday at 8:00 PM local time.
Operations Manager: Ralph Hunt, AG6Q
DX News: Bob Artigo, KN6J
Propagation: Al Lotze, W6RQ
Contest News: Rich Hudgins, WX6M
Westlink: Dave Bottom, KD6AZ
Swap Shop: Ben Deovlet, W6FDU
933 Robin Lane
Campbell, CA, 95008
408/374-0372
QSL Information: Mac McHenry, W6BSY

NCDXC DX BULLETIN BROADCASTS

Trustee: Bob Vallio, W6RGG

RUSTY'S RAMBLINGS

June's NCDXC meeting is going to be really far out. Far out in space, that is. Our speaker will be Dr. Kent Cullers, WA6TWX, who holds a PhD in physics from UC Berkeley and who is one of the organizers of NASA's Search for Extra Terrestrial Intelligence project (SETI). For well over a decade, Kent and his colleagues have pondered the problems of communicating with extraterrestrial life forms. If indeed, "others" really are out there, where are we most likely to find them? What would be the nature of their transmissions? What frequencies would they use to communicate with us? (Certainly they won't be on 14195 kHz as there is No intelligent life to be found there!) Kent is an entertaining and dynamic speaker; his program will be a good one to share with family and guests you want to treat to an evening out.

Plans for the Goodwill Games' World Radiosport Team Championship have firmed up and the 10-hour event is going to be a real dogfight. The lineup of internationally known operators reads like a who's who of DX Contesting. Page 48 of the June issue of QST Magazine features a write up describing the event, and the competition rules for you and me are in the Contest Corral on page 83 under the listing for July 20 and 21. Please get on and work as many of the 23 different /WG (for "World Games") stations as possible. Don't forget you can contact the same station once on each band and mode, so there are 230 QSOs possible just from working the WG team stations. You can win a nice certificate if you work 5 of the /WG stations, a lapel pin if you work 30 of them, and a Goodwill Games T-Shirt if your score is among the top 500 submitted.

Earlier this week I sent letters inviting the WG operators to visit the Bay Area after the events in Seattle and Portland draw to a close. I don't know yet how many of them will accept, but I'm guessing a significant number will. I'm working now to set up combined events with NCDXC, the NCCC and the Redwood Empire DX Club which will give us a chance to spend time with and get to know these outstanding hams.

Funds to cover the visit, particularly for East Bloc amateurs are scarce. If any of you could help either with lodging (and breakfast) or some cash it would really be appreciated. Volunteer tour guides for daytime activities are also needed. I hope to have details pinned down by the time we have our Club meeting on June 8 and I'll give you a full report. 73 de Rusty, W6OAT (with heavy editing)

MEETING MINUTES

May, 1990 BOD meeting.

The May, 1990 NCDXC BOD meeting was held at the Royal Palace Restaurant in Los Altos, prior to the regular meeting. Rusty, W6OAT, presided.

Items:

1. The 1991 International DX Convention was discussed. Rusty announced that W6MKM would be the convention chairman.
2. The board agreed that BOD members would seek volunteers for a committee to select next year's officer slate at the general meeting.
3. Life memberships were approved for WA6IME and WB6UDS.
4. Jerry, W8MEP, reported on his continuing search for an alternate meeting place. The Petty Officer's Club at Moffett field is a possibility, at least for occasional meetings. Otherwise, he has found no other suitable places.
5. Rusty brought up the invitation by K6DR to have a NCDXC meeting in Sacramento. We also discussed having one meeting per year in the North Bay and perhaps one in the East Bay or even the Monterey area. However, it was agreed (informally) to defer any decisions to the next board, with this board's affirmative recommendation.
6. Rusty gave the board a rundown on the upcoming Goodwill Olympics in Seattle during July and broached the subject of NCDXC inviting foreign team members to the Bay Area afterwards. All seemed agreeable to the idea.

May, 1990 General Meeting.

The May general meeting was also held at the Royal Palace Restaurant, with persident Rusty, W6OAT, presiding.

Items:

1. Rusty talked about the Goodwill Games.
2. Jim Maxwell, W6CF, gave a short report on DXAC activity.
3. Steve Stevenson, W6MKM, discussed the 1991 Visalia Convention, asking for volunteers.
4. Life memberships were approved by voice vote for WA6IME and WB6UDS.
5. First readings were held for:

Terry J. Hahn WA2AGO
5460 Escover Lane
San Jose, CA 95118

Bob Wolbert N6IP
3534 Pine Creek Drive
San Jose, CA 95132

6. Second readings, all voted affirmative were held for:

Ken O Swanson, N6SYP
59 Castlewood Dr.
Pleasanton, CA 94566 home: (415)462-6188,
work: (415)426-1815

Jan E. Collins K6BZS
937 Via Seville
Livermore, CA 94550 home: (415)443-0923,
work: (415)294-2159

Mike McEvoy N6OBX
907 Montgomery
San Carlos, CA 94070 home: (415)592-8783
work: not given

Dave Armstrong AA6PI
45 Washington Park Avenue
Mill Valley, CA 94904 home: (415)383-8420
work: (415)647-5463

7. Reinstated: Phil, VS6DR; Ray N6NBB and Carlyle, K6QW.

8. Steve Stevenson, W6MKM, gave a talk on coax cable.

Respectfully submitted,

Dave Barton, AF6S
Secretary

PHONE CHANGES

Ken Anderson K6PU work: (408) 473-4342

MARATHON

The annual Club Marathon summer activity builder and Contest began on June 1. It will run until Sept. 1. The objective of the contest is to work as many countries as possible on SSB, CW or Mixed. No RTTY, Packet or SSTV. All normal frequencies including WARC are allowed. Build your totals for the Nine Band DXCC Award! Good Hunting.

The DXers Quiz

We have all noticed the poor operating procedures of a lot of DXers when listening to pile-ups for rare DX-expeditions and other not so rare DX. But how many of us have given any thought to our own operating practices? The following quiz will help you evaluate your operating abilities and practices. Although some questions may seem humorous, all of these things happen all too frequently. Be honest when you answer the questions. No one will know the results besides you. Following the quiz there are instructions to determine where you stand.

1) The number of QSLs I have had returned as 'Not in Log' in the last 12 months are:

- a. none
- b. 1
- c. 2 or 3
- d. 4 or more

2) When I'm calling a DX station in a pile-up and I stop transmitting to listen if the DX is calling me, I find the DX is already in QSO with another station:

- a. Occasionally
- b. Up to half the time
- c. Most of the time
- d. I can seldom get in sync with the DX station's operating pattern

3) When calling a station on CW:

- a. I copy almost every call and most other info he sends
- b. I copy almost every call
- c. I copy some calls
- d. I can only copy my own call

4) In the last month when the DX was working split operation I called on the wrong VFO:

- a. No times
- b. 1 time
- c. 2 or 3 times
- d. 4 or more times

5) When I try to get an insurance QSO from a rare DX-pedition I:

- a. Work him only on a different band and mode
- b. Work him on the same band but different mode
- c. Work him anywhere I can
- d. Work him every time I can

6) When I find a DX station working a pile-up I:

- a. Listen to his operating technique and listen to the pile-up before calling
- b. Listen to the pile-up before calling
- c. Start calling before I've heard the pile-up
- d. Start calling before I've heard his call

7) When I work the DX station in a pile-up I:

- a. Never ask about other bands
- b. Ask about other bands only if the pile-up is small or the DX has been on for several days
- c. Ask for times and schedules for other bands no matter what the pile-up
- d. Ask him to QSY to another band right now

8) When trying to work a DX station I only sign my call:

- a. A few times after he finishes a QSO or I hear him call me
- b. (a above) or when he gives a partial callsign that matches part of mine
- c. Always except when I clearly hear him call someone else
- d. Continually no matter who he calls

9) When a DX station is working split and I hear someone call on the wrong VFO I:

- a. Never transmit on the DX
- b. Only transmit low power if it's a loud local station
- c. Only transmit if the offender repeatedly transmits and no one else says anything
- d. Yell at every offender

10) When I go into the shack looking to work an active DX-pedition I:

- a. Turn on the rig, carefully tune all the likely bands and then check packet or ask on the repeater if I can't find him
- b. Turn on the rig, quickly scan one or two bands and then check packet or ask on the repeater
- c. Turn on the rig, check packet or the repeater and then scan the bands if no one knows
- d. Don't turn on the rig unless it is reported on packet or the repeater

- 11) I call a DX station when I:
- Can clearly hear him except for occasional QRM
 - Can clearly hear him about half the time
 - Can occasionally hear him
 - Hope I can hear if he calls me and if not I'll have someone else confirm my QSO

- 12) When I call a DX station I:
- hope to work him but realize you just can't work everything
 - am sure I can work him if he's working others in my area and the pile-up is not too big
 - know I can work him because I have a superior station and operating abilities
 - (c above) and complain he is a lousy operator if I don't work him

- 13) When calling a DX station I:
- Only run an amplifier if I can't work him barefoot
 - Always run an amplifier but under the legal limit
 - Run over the legal limit only when it's a real tough one
 - Always run over the legal limit

- 14) During my DXing career I operated in subbands for which I was not licensed:
- Never on purpose
 - A few times in moments of weakness
 - Whenever it seemed necessary
 - Whenever I wanted to work DX there

Take the quiz if you have not already done so or it may bias your answers. Here's how you score: all "a" answers are 0 points, all "b" answers are 1 point, all "c" answers are 3 points and all "d" answers are 7 points. Add up the points and read on.

≤ 7 points - You qualify for sainthood as a DX operator. Most of your responses were "a", which were intended to be the ideal response of a perfect DX operator. No one can be expected to be this good.

8 - 21 points - You're at the top of the DXer class. "b" answers are a lofty goal, but not impossible. You probably work more DX and have more countries than most of us realize. If everyone scored here the pile-up chaos would disappear. Keep up the good work.

22 - 42 points - You passed the quiz but probably need improvement in a few areas. Hopefully you have no "d" answers. If you do, read the next paragraph. "c" answers were intended to be what almost anyone could meet. There may be room for improvement but you're not the low life of the DX world.

≥ 43 points - You failed. At least one "d" answer was needed to get this many points. "d" answers represent all the bad operating practices about which everyone is complaining. It's time to clean up your act.

Although I doubt that they will, I hope some people will see that they need to be better operators. Every "d" answer is something that has been happening in our club. I didn't make them up. If you're guilty of any of these bad practices and don't do your part to improve then something is bound to happen to the DXCC program and it won't be good. At the very least your actions make DXing not much fun for the rest of us.

Chuck Vaughn - AA6G

CATPERSON

To: Chief, Pro tem
Catperson Tracking Bureau

It was with interest I read of your efforts to track down the elusive Catperson. While I can't provide any specific information as to his whereabouts, I can provide a clue which should aid the Bureau in its search.

I have been told by a reliable source that Catperson, while in Malibu, ate indiscriminately, and led a riotous life resulting in high cholestol levels and an exceedingly low red blood cell count. He visited a vet in Goleta, just north of Santa Baraara who prescribed massive doses of ferrous sulphate (iron pills) to correct these deficiencies. When released from the Vets Catperson found he could only travel in one direction...North. This lends credence to the sighting at Half Moon Bay, and at this very moment he might be in the Bay Area.

Club members and members of the Bureau should be on the look out for any cat who can only travel in one direction...North. Who knows, it might be Catperson.

Hal, N6AN

SK

Sophie Heintz, W6SH, passed away May 18, 1990. Sophie was the widow of Ralph Heintz, W6RH. Sophie was licensed as W6GI in 1926 and kept CW skeds with expectations to the North and South Poles. Many will remember the countless phone patches she handled after WW2. SK de W6VG.

TREASURERS REPORT

May 1 to May 31, 1990

Checking Acct. Activity

April 31 E.O.M Balance	\$2959.02
Deposits from Dues	929.00
Other Receipts	87.00
Sub Total	3975.02
Accts. Payable	701.52
May 31 E.O.M. Balance	3273.50

Savings Acct. Status

B of A as of 4/18/90 incl. QSL Reserves	\$12724.75
American Savings Bank 3/24/90	\$8555.82

Repeater Fund

Wells Fargo as of 5/31/90 per W6JZU	\$1857.74
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25 YEARS AGO

President Ron Panton, W6CBE (W6VG) blasts members for whirking responsibility to run for club office! "What's with you great men? Get on the ball you hot-shots and help make this a great club. If we all sit back we won't have a club. We have many great potential executives in our midst, why not nominate one?" (Still good advice).

New officers voted in: President, Jack Brollier, K6ERV; Vice Pres., Jim Neiger, W7WJV (N6TJ); Sec/Treas, Ray Eichman WA6IVM.

For Sale: All band final with pr 4-400s, \$300. W6LGZ

Wanted: Leads for collins S(1) Line. Hillar Ramaat, WA6HRS (N6HR).

On the Air (by DX Editor, Dave Baker, W6WX) VP8HO, So. Georgia; OH2AM/0; Trucial Oman, MP4TBO; 4W1I reported on 21 Mc CW.

de W6ISQ

CONVENTION

The 1991 International DX Convention will be held at the Visalia Holliday Inn on April 12-13-14. Call Sheree for reservations, (209)651-5000 x2398. Room rate is \$57.00 per day. The Lampliter will take reservations for the same \$57.00 rate.

Ken Anderson, K6PU, is working on a bus charter from the North and South Bay for Friday April 12, returning Sunday the 14th. Details are not available at the present but it looks as though the charter will leave Santa Rosa early and San Jose at noon.

Rusty, W6OAT, is looking into a tailgate Bar-B-Q in the parking lot Friday evening after the Spirits Party.

Time to begin thinking about a Patch design for the Convention. The winner could receive a generous gift.

Wednesday, June 13 at 7:00 P.M. there will be a Convention organizational meeting at the W6VG residence in Menlo Park. His address is 5 Cedar Court. We need volunteers for several jobs so if you feel you can assist, please attend.

Watch the DXer for further information. de W6MKM

A History of the World

4 Billion BC - Earth is a swirling ball of flaming gases. Propagation is extremely poor.

1 Billion BC - First dry land appears. It is divided up into squares. DX Century Club formed.

500 Million BC - Second patch of dry land appears. First DXpedition. Credit disallowed because of questionable licensing agreement.

400 Million BC - Flowering plants and grasses evolve. Telrex invents first beam antenna but sales area slow because of lack of suitable structures.

300 Million BC - First tree appears. It is immediately cut down, stripped of branches, placed in a concrete base and named a telephone pole. Telrex sells first beam.

200 Million BC - Second beam sold by Telrex. Installer falls from top of pole. First safety belt sold.

100 Million BC - First mountain appears. Repeater invented.

50 Million BC - It is decided by WARC that "seek you" is too cumbersome to send on CW, so abbreviation "CQ" is adopted.

4 Million BC - Humans replace swine as dominant species. The name "Ham Operator" hangs on, however.

3 Million BC - Dugout canoe invented. Maritime Mobile Net formed on 14.313 MHz.

2 Million BC to 800 AD - Nothing much happens for a long time.

900 AD - Chinese invent gunpowder. BY1AA is first "Big Gun" DXer.

1790 AD - Ben Franklin invents long wire receiving antenna. Ground switch invented.

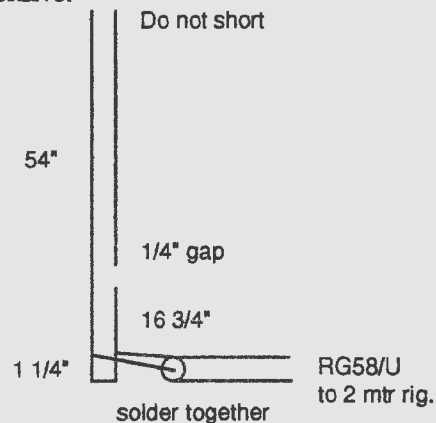
1961 AD - Second repeater erected. First repeater group refuses to change frequency. First frequency coordinator appointed.

1990 AD - Amateur radio humor sinks to a new low.

Published in the Spring 1990 Handi-Hams

For those seeking a few db more SNR out of your HT into the local packet node, this antenna might just do the trick.

The following is a description of a J-Pole antenna made from 300 ohm TV twin-lead. Quite a few of the hams in the area have successfully built one or more of these antennas. They have quite a few advantages which include improved performance for 2-meter HTs, portability, and last, but not least, they are inexpensive.



1. Start with 54 1/2" of TV twin lead (foam core does not work as well)
2. Strip 1/2" of insulation at bottom and solder wires together.
3. Measure 1 1/4" from soldered wires and strip insulation on both sides. This is the solder point for a coax feedline.
4. Measure 16 3/4" from bottom and cut out 1/4" notch on one side.
5. Feed with a length of RG58U coax. Tape coax at feedpoint to the twin lead for strength and weather protection.

I have also attached an alligator clip to the plastic on the top of the antenna in order to conveniently hang it. I am successfully using one in my attic to avoid any CCNR problems. I have another that I can take with me camping, sailing, etc.

This design has appeared on many BBSs and in club newsletters; the earliest reference that I know of is a Jan. 1984 D.A.R.C. antenna article by James Burks, KA5QYV. Enjoy, N6UBM

HONOR ROLL		DXCC			5 BAND DXCC				
CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m	
			274						
W6AED/7		271	181	252	109	176	258	54	
W6AEO			325			100	100		
N3AHA			241						
W6AHHF	312	222	210	90	73	118	153	35 12	
KG6AM			335		100	100	100	100	
N6AN		288	272	180	153	205	248	40 25	
K6ANP	317	338	286	284	218	281	300	176 118	
KA6BIM		316	199	211	133	144	199	110 105	
W6BJH	311	196	190	59	108	131	141	33 8	
W6BSS		327	192	282	120	117	187	117 100	
W6BSY	323 322	290	290	2	131	164	241	52 21	
KB6BW		363	357						
K6BWX			251	2	89	89	151	26 2	
W6CF	315	225	1	224					
K6CN		342	294	185	204	239	306	178 138	
W6CTL		260	253	158					
WB6CUA	314	325	2	256	179	168	322	89 11	
W6D		324	301	291	100	100	100	100 96	
K6DC	315	172	89	147	33	70	136	67 26	
W6DD			126						
W6DPD		317	317						
K6DR			248						
K6DT	312 307	340	320	293	229	251	328	153 121	
W6DU	312	331	282	302	212	237	302	152 103	
NQ6E		240		207	116	127	196	136 118	
WD6EKR			303		170	234	291	78 72	
WD6EKR/M			240		79	193	149	2 2	
W6ERS	319	349							
W6ETR				237					
WB6EXW		303			100	100	100	50 11	
W6FAH			286	165	170	189	266	141 138	
K6FD		296	271						
		323	258	273					
		277	185	239	134	164	235	125 102	
		253		229					
KB6G		175							
KD6GC		316			70	120	210	293 170	
KG6GF		101	300	70	161	192	246	105 50	
WB6GFJ		301							
N6GG		331	331	316	260	290	315	245 210	
W6GO	317 317 311	303	290		182	100	100	100 87	
K5GOE		320		243					
W6GHAT	312	316	311	23	209	176	223	443 40	
K6HHD	312		290		209	242	254	125 107	
K6HNZ		329	315		100	100	100	100 100	
N6HR	308		323						
W6HXW	323	287			151	173	225	161 66	
WC6I			335						
W1ICU	316	339	303	336	197	243	322	248 162	
K4II			197		186				
KA6ING		348	331	207	157	189	219	122 110	
W6ISQ	315 312	320	215	296			183		
W6JD		290	278	234	198	221	255	119 86	
N6JM		321							
W6JRY	306	330	267	317	242	246	298	244 200	
N6JV	320		75	115	255	22	12		
W6JZU	312	352	290	108	161	193	210	189 105	
W6KC	314	362							
W6KH	323	272	272		176	150	161	111 71	
K6KLY			339						
W6KNH	319	339							
W6KOE	313		337						
W6KQK		310	295	287	243	278	299	152 118	
K6KQN		265	260						
NB6L		311	212	162	100	93	186	40 19	
WA8LLY		254	234	194	184	188	186	64 17	
K6LM	316 312 307	321	316	309	100	100	100	100 100	
K6		330							
W6	312	330	330						
WX6M	314 314	318	318	119	154	158	196	115 103	
K6MA	319 311	348	322	290	200	200	300	165 121	
W8MEP		301			100	100	100	41 27	

HONOR ROLL		DXCC			5 BAND DXCC				
CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m	
W6MUR		313							
W6MZ		315							
W6NA			271	140	190	251	192	109	
W6NKR			289						
W6NLG	316	316	306	100	100	100	26	6	
K6NM		300	200	191	100	135	258	152 34	
W6NPNY		316	200	265	200	200	200	178 139	
WA8O		217		88	50	123	2	16	
N6OC		303	300						
W6OXY		227		71	60	170	20	8	
N6OJ		316	275	105					
K6OJO	312 311	328	327		187	250	309	17 12	
W6OMR	313	332	318						
W6OSP		313							
WB6OTB		271							
K6OZL		332		100	100	100	100	100	
WG6P		306	306	283	184	210	303	207 118	
K6PBT		216	191	115	111	133	145	61 15	
K6PKO		308	301		270	175	185	97 112	
K6PU	323 318	350	335	290	200	200	300	200 100	
AG6Q		303	289	168	100	100	100	100 100	
KB6Q		294							
W6QDE		281	138	243					
W6QL	315	337	263	69	114	161	201	111 103	
N6QR	310	313			100	100	100	100 100	
N6RC		213							
W6RJ	316	345			100	100	100	100 100	
K6RK	320	332	319	303	100	100	100	100 100	
K6RQ	317	354			91	182	285	126 71	
N6RR		289			116	210	176	129 88	
K6RUW		270	242	120	100	100	100		
DJ6RX	315	336			215	271	303	227 185	
AF6S		312		301	247	262	286	192 128	
K6SIK		286	282	140	183	186	262	128 120	
WA6SLO			310		249	278	310	198 202	
N6ST	315	320	297	235	171	207	284	126 50	
W6SYL			220						
W6TC	320	332		318	200	200	200	200 157	
W6TER		269							
K6TMB		308	304	248	215	245	292	140 116	
WA6TOO		251			58	84	167	6 6	
W6TPH		272	238	187	141	181	172	110 100	
W6TUI		275	274		109	125	187	125 118	
AE6U		305		276	200	200	200	200 140	
K6UD	308	318	306	207	240	244	244	176 147	
WB6UOM		300							
W6UR		264	159	158					
K4UVT		287	208	97	31	70	275	53 7	
AJ6V		317	225	259	143	163	252	133 62	
KD6VS		304							
K6WD	312	325		272	100	100	100	100 65	
WB6WKM		305	100	100	100	100	100	100 63	
KE6WL		219	211	153	120	166	185	83 32	
K6WR	324 323	354	353		100	100	100	100 100	
KK6X		281	227	255					
NG6X		250							
W7XA		325			277	298	309	174 137	
K6XM		267	209	222	163	179	246	144 68	
W6XP	321 321	337	337						
K6XT	312	327		160	100	100	100	100 99	
KD6XY		305	288	54	124	137	225	8 3	
KR7Y		301	271	267	149	184	249	142 126	
W6YYK			251		160	198	173	56 42	
AA6Z		283							
WZ6Z		282			181	182	250	177 106	
W6ZKM	311		333		100	100	100	100 100	
K6ZM	315	345	311	261	100	100	100	100 73	
W6ZM	315 315	356	351		130	142	317	52 111	
WB6ZUC		317		303	178	244	265	152 105	
K6ZX		309		287					

de LARRY, KD6XY

CALL	WAZ			5 BAND WAZ					WPX		
	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.-	-CW.-
AA6AD	40										
N3AHA	40	38	30	25	33	37	19	8			
WA6AHF	40										
N6AN	40	40	40								
K6ANP			40								
KA6BIM	39										
W6BJH	40										
WA6BSS		40									
KB6BW	40										
W6CF	40	40							893		
WB6CUA	40	40		40	40	40	32	24			
WW6D	33										
W6DPD	40	40									
K6DT	40	40							1,416		
NQ6E	40			30	33	40	38	33	600		
WD6EKR/M		40									
W6ERS	40										
W6ETR			40								
W6FAH		40									
K6FO			40								
KG6GF	39										
WB6GFJ	40	40							837		
N6GG	40										
W6GO	40	40		40	40	40	40	40			
K5GOE	40	40							1,037	947	
WA6HAT	40										
K6HHD	40										
K6HNZ	40										
N6HR	40								863		
WC6I	40			35	39	40	39	28			
W11CU	40										
KA6ING		36									
W6ISQ	40	40							869		
W6JD	40										
N6JM	40			35	39	39	28	20	1,742		
N6JV	40			40	40	40	39	36	2,741	2,741	
W6JZU	40	40									
W6KC	40	40							911		
W6KNH	40	40									
W6KOE	40	40									
W6KQK	40	40									
K6KQN	40	40									
NB6L	40										
K6LQA	40										
W6LQC		40							939		
WX6M	40	40									
K6MA	40	40									
W8MEP		40									
W6NKR	40										
W6NLG	40	40							450	450	
K6NM	40										
W6NPY	40										
N6OC	40										
WA6OEY	40										
N6OJ	40										
K6OJO	40	40									
W6OMR	40	40									
WG6P	40	40	40	35	36	40	37	31			
K6PBT	40										
K6PKO	40	40				40			850		
W6QL	40	40									
N6QR	40	40									
W6RJ	40	40									
K6RK	40	40									
N6RR	40										
DJ6RX	40			40	40	40	40	40			
AF6S	39										
K6SIK	40	40	40	40	40	40	40	40			
WA6SLO	40			40	40	40	34	39			
N6ST	40	40									
W6TC	40		40	40	40	40	40	37			
K6TMB	40	40	38	40	40	40	32	28			
WA6TOO	20										

CALL	WAZ			5 BAND WAZ					WPX		
	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.-	-CW.-
W6TUI			40	30	33	40	29	26			
AE6U	40										
K6UD	40										
WB6UOM	40										
AJ6V	40										
K6WD	40										
WB6WKM	40	40									
KE6WL	39	38									
K6WR	40	40									
K6XM	40										
K6XT	40	40									
K6XY	40	40	24	28	34	37	6	2			
KR7Y	40										1,526
W6YVK	40										659
AA6Z	40										
WZ6Z	40	40		35	37	39	37	30			
W6ZKM		40									
K6ZM	40	40									
W6ZM	40	40									
K6ZX	40										

de LARRY, KD6XY

WARC DXCC OTHER

CALL	-12m	17m	30m	-160m	-6m
N6AN	58	47	29		
KA6ING					39
N6JM				15	
N6JV				66	
K6KLY					57
WA8LLY	12				42
WX6M				17	
WG6P	3	6	1	12	
KE6WL				4	
WZ6Z				12	

WARC WAZ OTHER

CALL	-12m	17m	30m	-160m
WG6P	2	6	1	4

DX LADDER:

Since the last DX Ladder Report was published there were 27 updates sent in and one new member was added to the lists.

de LARRY, KD6XY

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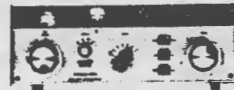
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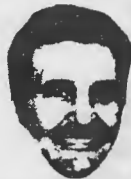
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