

DXer



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

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Knock's Knews

As I write, it is not quite Hallow'een, with all its little goblins, and Thanksgiving, with all those turkeys, is just around the corner. Sounds like the 3Y1 pileup.

The next meeting will be held on the original Armistice Day, the eleventh day of the eleventh month, but not at the eleventh hour! That's Friday, November 11, for those of you who may not remember what 11/11/18 meant.

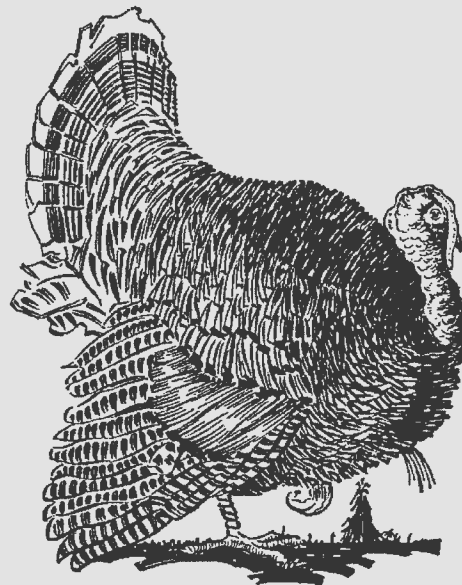
The Dunfey Hotel apparently suits many members: the last three meetings have brought increasing attendance, so we will also hold the November meeting there. It will be the same drill: an Italian buffet starting about 6 PM—leaving lots of time for schmoozing and socializing—with the meeting starting at 8:00. George, WA6O, has promised an outstanding program, so come early, bring a friend or oldtime member and join in the festivities.

NCDXC retains the ARRL DX Contest trophy

For the 31st time in the 45 years of competition with the Southern California DX Club, the Northern California DX Club won the ARRL DX Contest in 1994. With 43 members of the NCDXC reporting their scores for an average of 195,100, we amassed a total 8,389,293 points against their 18 stations averaging 145,315, with a club total of 2,615,673. We dare not become complacent in 1995, as the Shadow reports that they may make an all out attempt to regain the trophy. Suitably engraved, the trophy will be all polished up and on display at the next five meetings for all to see and admire. Way to go, guys and gals!

Alternatives to DX frustration

Jack, W6ISQ, offered some alternatives to gnawing your teeth and biting your fingernails over the few DX offerings available now and in the near future. One of these was QRP operation—a real challenge! At the October meeting, we were privileged to have Wayne Burdick, N6KR, from the Norcal QRP Club, demo some of the latest state-of-the-art rigs he and the club have developed. Outstanding! About as big as a



Holiday symbol, NCDXC president, or DXer editor? Pick one or more!

A budget, at long last?

Ah, that awful subject of money. Where will it come from? Where does it go? Familiar cries we all make at the end of a month, or at the beginning of a new year. "This year," we all say, "I'll live within my income, save 10%, tith 10%, take the YL/OM out to dinner more, fix up the old jalopy or get a new one, paint the house, get a new tower/beam/rotator/amp, pay the kids' tuition, eliminate the credit card balances, and do all the things I want to do without breaking the budget." Sure, and the Easter Bunny, Tooth Fairy, and Santa Claus with all his little elves will be there to help.

Bob, NQ6X, our Treasurer, has analyzed anticipated receipts and expenditures for the July 1, 1994 to June 30, 1995 fiscal year, and has made a projection that seems reasonable. As in past years, receipts will be far less than required expenditures, requiring either a major profit from the DX Convention or withdrawal of funds from the savings account. The Dunfey or other locations that charge for the room are still preferred to those that require a minimum-meal guarantee. During the past two years, the club has underwritten the meeting room and meals to the tune of almost \$2,000 per year—for just ten meetings.

Bob's figures, adjusted for anticipated but unnecessary expenditures, suggest a deficit of approximately \$4,144. The salient points are as follows.

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November 1994

General Meeting

The October meeting, (the 577th) was held at the Dunfey Hotel. The meeting was called to order by President Knochenhauer, K6ITL at 20:02.



Dave Barton, AF6S, displays his ARRL Cover Plaque Award to YF Susan, KA6SEH, and The DXer.

N6KR. Wayne gave a very fine presentation on QRP operation and construction. On display were numerous finely-made QRP rigs built by Wayne and others, including our own Eric Swartz, WA6HHQ. N6ULU, by the way, has logged almost 90 countries on 40m QRP this year.

- Brad Wyatt, K6WR, presented the ARRL Front Cover Plaque Award to Dave Barton, AF6S. Dave was cited for his technical article in the November, 1993 *QST*.
- Knock, K6ITL, presented a membership certificate to Bruce Wade, W6FKD.
- Jim Maxwell, W6CF, discussed Scarborough Reef QSL's, and Brad Wyatt, K6WR, announced the appointment of Bob Wilson, N6TV, to the ARRL Contest Advisory Committee. Brad also announced that the "Ham radio/good people" bill has passed both the Senate and the House.
- Ted Algren, KA6W, spoke on NCDXC Task Force results so far. Ted solicits further inputs, direct or via PacketClustet.
- 1996 will mark the 50th Anniversary of the NCDXC. Ways of celebrating the event will be discussed.
- There was no new or old business.

The meeting was adjourned at 21:43.

- The October minutes and treasurers report were approved.
- 9BDXCC applications, updates and fees should be sent to John Brand, K6WC, before November 10.
- Volunteers are sought to assist with the upcoming International DX Convention.
- The perpetual trophy for the winner of the NCDXC/SCDXC club competition in the ARRL DX contest was displayed. NCDXC has won it 27 times.
- 84 responses to the Membership Survey were returned to W7XA. Results will appear in the November *DXer*.
- Club guests K6ZAN, WB6UTY, WA6MME, and OH2BNH were introduced.
- Stan Goldstein, N6ULU, introduced the guest speaker, Wayne Burdick,



Eric Swartz, WA6HHQ, shows off his 40m QRP transceiver

—Ron Panton, W6VG (Acting Secretary)

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: Jim Knochenhauer, K6ITL
 Vice President: George Allan, WA6O
 Secretary: Eric Edberg, W6DU
 Treasurer: Bob Wilson, NQ6X
 Director: Jerry Griffin, W8MEP
 Director: Al Koblinski, W7XA
 Director: Stan Goldstein, N6ULU

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DX Ladder: Larry Bloom, KD6XY
 2520 Heather Lane
 San Bruno, CA 94066
 (or via DXPSN)

Club Repeater, W6TI/R, (147.36+)

Trustee: Bob Vallio, W6RGG
 Comm. Chairman: Ralph Hunt, AG6Q
 Club simplex: 147.54 (suggested)
 Thurs. Net QTR: 8 p.m. local time.
 Net Manager: Ralph Hunt, AG6Q
 DX News: Dave Pugatch, KI6WF
 Propagation: Al Lotze, W6RQ
 Contest Manager: Rich Hudgins, WX6M
 Westlink: Craig Smith, N6ITW
 Swap Shop: Ben Devolet, W6FDU
 933 Robin Lane
 Campbell, CA, 95008
 (408) 374-0372

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.

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Treasurer's Report de NQ6X

	Credits	Debits	Balance
<i>Bank of America Checking Account</i>			
Beginning Balance (Sep 1, '94)			\$4,549.99
Receipts			
Dues received & deposited	\$343.00		
Ad sale for roster	\$500.00		
Account interest	3.77		
Subtotal	\$846.77		\$5,396.76
Expenditures			
DXer printing, postage & expenses		\$547.86	
September room rent		100.00	
Subtotal		\$647.86	
Ending Balance			\$4,748.90
<i>Eurekabank Savings Account</i>			
Beginning Balance (Sep 1)			\$18,877.71
Account interest	\$38.56		
Ending Balance*			\$18,916.27
*Includes \$3500 set-aside for 1995 IDXC			
<i>EurekaBank Life Members Fund</i>			
CD value at 4 March '94			\$10,432.73
(matures 4 Nov '94) no activity			

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Knock's Knews

minute, the rigs cover 80/15 meters with keyer and goodies like RIT and RF gain, along with sophisticated curcuitry that makes the receiver about as good as any Ricebox. They operate from a small gel-cell for days and days. Something to think about! Thanks, Wayne.

Task Force Report

Ted, KA6W, was prepared to give us a preliminary report on the findings of the Task Force on Future Planning but the overhead projector was not to be found! It seems the hotel cleanup/setup crew latched onto it and locked it up in a sealed vault, deep in the dungeon of the castle. Not-to-worry: Ted will try again in November, with success assured. Ted did report that he was disappointed by the membership's lack of interest in offering suggestions for future activities. He and the other task force members have generated many ideas, but they still would like to hear from you before making their final recommendations. It's not too late so send your ideas to Ted by FedEx, UPS, USPS, or the DXPSN. He will see that they are given immediate consideration. So what do *you* think the club should undertake? Your ideas are needed and important, so don't get left at the starting gate.

YL DXCC awards

One of the alternatives that W6ISQ presented was to chase the YL DXCC and YL WAC. At least two of our members, K6RQ and WA6AHF, actively pursue these awards and find them to be a real challenge. Info ré award requirements will be included in the next *DX'er*.

California Award

Once again, a friendly reminder to QSL and to indicate the requirements for the California Award to all DX stations. This is a great way to get a small pileup going during the current doldrums. Try it: you'll like it!

—"Knock" Knochenhauer, K6ITL



from page 1

A budget, at long last?

Estimated receipts

Dues, including Life Members	\$7,316
Ad sales	500
Other misc.	300

Total estimated receipts \$8,116

Estimated expenditures

DXer printing and mailing	\$6,570
DXer preparation	800
Roster printing and mailing	520
Room rental for meetings (10)	1,040
Archive storage space rental	270
Misc. (badges, awards, etc.)	500
Liability insurance	410
Prizes/activities	600
Repeater fund	750
Operating/supplies, etc.	800

Total estimated expenditures \$12,260

Estimated budget surplus (deficit) (\$4,144)

So there it is: a bare bones budget that has little room for change —other than to eliminate some major NCDXC functions. Your Board of Directors will review these projections to see if any revenue sources have been overlooked.

—K6ITL

NCDXC Ops off to Damascus!

CW, RTTY, lowbands and the CQWW from "the oldest town on earth."

The upcoming YKØA operation (*see sidebar*) promises dramatically to alter the most-wanted status of this Rare One. The most recent Most-Wanted Countries Survey in The DX Magazine lists Syria as number 35 overall, but 26 from the West Coast—and 16 on CW. In recent years only YK1AO and an occasional UN peacekeeper in the Golan have provided Syria QSO's to the Deserving; almost all of these have been on SSB.

The YKØA story began when Omar Shabsaigh, YK1AO, requested equipment assistance from the Northern California DX Foundation, and received a Yaesu FT-1, left over from the 1985 Clipperton DXpedition. Omar was QRV for the next several years with that rig.

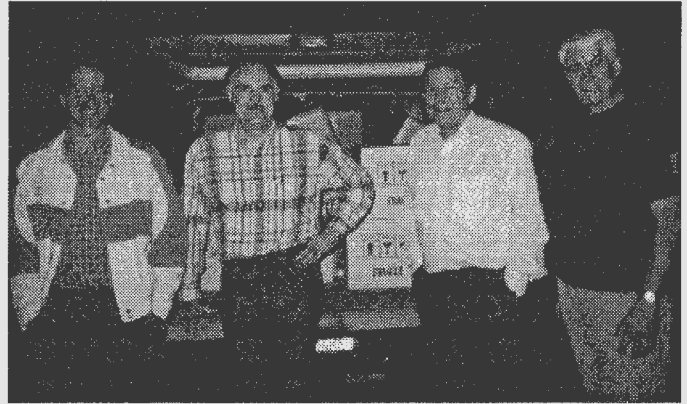
When the FT-1 died, Omar requested another rig (from Josephine, WB6ZUC, then an NCDXF boardmember) but the NCDXF—whose policy is *not* to provide equipment to individual amateurs—turned him down. Responding for the NCDXF Board in early 1993, Rusty Epps, W6OAT, referred Omar to INDEXA (which does provide equipment), but also suggested that invited groups sometimes leave equipment behind.

One can only speculate upon the relationship between YK1AO and the

Syrian government. But it is fact that, of the fourteen YK callsigns in the current Callbook, seven are issued to persons surnamed Shabsaigh at Box 245, Damascus. Omar and his family therefore hold half of all Syrian callsigns! It is also fact that YK1AO has been for years the *only* resident amateur heard abroad from this otherwise closed country.

In his letter, Rusty had been thinking of Albania, where training of local amateurs had been a key objective of the ZA1A operation. But, when an invitation for a group of US operators arrived that summer from Damascus, it was clear that the Syrians did *not* have expansion of Syrian amateur radio in mind.

The license for a Syrian operation involving up to eight visiting US operators arrived just before this year's Visalia Convention. Rusty showed the documentation to DXCC czar Bill Kennamer, K5FUV, at Visalia, and received his blessing. Rusty immediately began soliciting operators and equipment. Three of the original group have since dropped out and been



N6TV, WØYK, W6OTC, NW6P and a fully-loaded Suburban

replaced. Six of the eight participants are members of the Northern California DX Club. Most are top-rank CW operators and/or testers. Len Gerald, K6ANP, is an accomplished lowband operator, and Glenn Vinson, W6OTC, will provide the first RTTY operation from Syria in anyone's memory.

The group's objective in the CQWW is maximum QSO's in the log, rather than maximum score.

Yaesu, ETO, Force 12, HRO and the NCDXF head the list of DXpedition supporters. The group will employ two FT990's and an FT900, and Alpha 89 and 91B amplifiers; the third station will run barefoot. Force 12 has provided 2 C3 Classic tribanders and a 2-element 40m beam. Through Charles Dewey, WØCD, a Battle Creek Special has been borrowed for the low bands. Wires will be used on the WARC bands. YKØA will be QRV from a Syrian Telecommunication Establishment (STE) training facility—a four-story building 90m long—on the outskirts of Damascus. At the end of the visit, one station will be left in Damascus for YK1AO's continued operation.

Propagation to the west coast could be difficult: the coronal hole that has caused problems for the past two months is likely to be in view during and after CQWW, bumping up the A index. Solar flux is

DXpedition to Syria

W6OAT's news release

WA2TMP, K3NA, K6ANP, N6TV, NW6P, W6OAT, W6OTC and WØYK will activate YKØA between November 23 and November 30, 1994. This DXpedition will be the first-ever operation by foreigners officially sanctioned by the Syrian government. It was made possible with the help of Omar, YK1AO, who arranged for issuance of the license and who secured an operating site inside a Syrian PT&T training facility on the outskirts of Damascus.

The primary objective of the DXpedition will be to make YK available on CW, RTTY and the low bands. A secondary objective will be to operate as a two- or three-transmitter multi-multi in the CQWW CW DX Contest, November 26 and 27. The group foresees some SSB and WARC band operation as time and band conditions permit.

QSL via W6OAT.

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SYRIAN ARAB REPUBLIC
Syrian Telecommunication
Establishment

No. 1714/114

Damascus. 27 MAR 1994

TO : MR . D . OMAR SHABSIGH

Technical Insitute of Radio
Damascus, B.O.Box 245

Dear sir ,

Ref . your letter of 1 December 1993 concerning application of a group of radio amateur from United States .

We agree for that group to use and operate their radios in Syria under supervision of S.T.E and you.

Using the international call sign and radio regulation including your call sign YK0A .

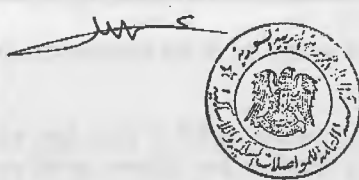
This permission is valid for one week in 1994

Freqency bands allocated for amateur service are permitted only .

Best regards.

General Director Of S.T.E

Eng. M. OBIED



Tom, NW6P, and the Battle Creek Special

from previous page

Syria

unlikely to exceed 80, 10m and 12m prospects are dismal, and the short path will require working through Europe and/or the east coast. On the plus side, our NCDXC brothers will be looking for sixes and sevens at every opportunity, and are likely to work the 40 and 80m long path in the mornings.

—Garry Shapiro, NI6T

Marathon Results

The following 1994 NCDXC Summer Marathon Scores were submitted.

CW

N6EA	128
W6BIP	116
W6WB	97
W6VG	13

Phone

AB6LJ	203
KG6LF	113
WD6EKR	109
W6MKM	14
W6FAH	4

Mixed

WG6P	236
WB6CUA	198
K6MA	128

Plaques will be presented at a future club meeting.

—Rich Hudgins, WX6M

Roster Changes

Silent Key

Gerald (Jerry) Stickney, W6PVE

License Upgrade

John McConnell, KC6ESL (G)

Change of Address

Michael (Mike) Terranova, KJ6AP
1408 NE 65th ST.

Vancouver, WA 98665

No phone numbers provided



Ohm Away From Ohm

—from "WB4QNX", IBM ARC of Boca Raton, FL; reprinted in the "ARNS Bulletin"—Dave Barton, AF6S, Editor

NCDXC Membership Survey Results

W7XA tallies the September poll

Members polled: 372 Members responding: 84 (22.6%)

“Charlie”

At its July meeting, the Board voted to suspend voice-synthesized DX packet announcements on the NCDXC repeater for 60 days to determine if membership activity on the repeater would increase. Some members had maintained that “Charlie” had single-handedly killed DX (and other) banter on the repeater. The August meeting then brought forth an unprecedented outpouring of support for “Charlie.” There was virtually no increase in membership activity on the repeater during the experiment.

The W6TI/R repeater is second only to *The DXer* in reaching members, while monthly meetings attract only a modest attendance.

Results:

Yes on “Charlie”: 58 No on “Charlie”: 20 Don’t care: 5

Charlie will remain active on the NCDXC repeater.

Some comments:

“‘Charlie’ should announce locally generated callouts only.” (He has, for some time—*Ed.*)

“Can something be done to prevent ‘Charlie’s’ interrupting other QSO’s on the repeater?”

“‘Charlie’ is a major irritant!”

“Can ‘Charlie’ be filtered to announce only the top 100 (or 50, or ?) most-wanted?”

Meetings

The number of attendees at regular NCDXC meetings, held on the second Friday of each month at “mid-Peninsula” locations, has steadily decreased. Meeting-night and location have been cited as contributing factors. Members responded to the question “How often do you attend meetings?” as follows:

Every meeting: 8 Often: 14 Occasionally: 26 Rarely: 25 Never: 13

(I presumed that most of the 288 who did not respond would be in the rare/never category.)

Location

Not surprisingly, respondents wanted meeting places near their QTH’s. Very few would drive more than 60 minutes each way. Most respondents found the current location (Dunfey Hotel in San Mateo) to be convenient. Some preferred Harry’s in Palo Alto. The results indicated that 18 respondents (21%) would attend more meetings if held within 30 minutes of their QTH’s.

Demographics of respondents by county:

Santa Clara	31	Alameda	8
San Mateo	12	San Francisco	5
Santa Cruz, Monterey and San Benito	4	all others*	13
Contra Costa	3		

* “All others” includes out-of-state.

It appears that the current mid-Peninsula location is acceptable, but some would prefer a return to the Palo Alto vicinity. *Meeting location does not appear to be a major contributor to low meeting attendance.*

Meeting night

Some respondents indicated more than one preferred meeting night, so the total exceeds 84. An “any day” response in addition to another day took precedence.

Any	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
43	6	8	14	13	20	2

The “any” response surpassed any particular day.

Low Friday attendance suggests further evaluation and a possible change of meeting night to Wednesday or Thursday.

(Note that a change from Friday could save money, since most meeting rooms charge for the room or attach a meal-minimum on Friday, but rarely do so on other weeknights.)

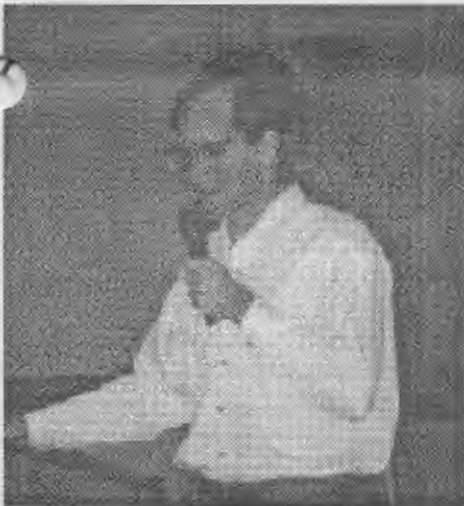
A special thank-you to all who took the time to respond to this survey. As in any group, those who speak up make a difference.

—Al Koblinski W7XA

More October Meeting Pix



Scotty, W7SW/IØ, visiting from Rome, dropped by to see friends like Ted, KA6W



Wayne Burdick, N6KR, during his FB presentation on QRP.



Some of the finely-crafted HF QRP gear on display at the meeting

Christmas Holiday Meeting!

Featuring a change from the usual meeting night, the December meeting will be held on *Thursday, December 8*, at The Bold Knight in Sunnyvale. The menu, as worked out by N6ITW, includes hors d'oeuvres, and New York steak or salmon. Craig can make arrangements (in advance) for a vegetarian salad for a few folks. Social hour begins at six and dinner will be served at about 7:15.

N6ITW promises a Super Special Dessert, good company, and a wonderful program. Bring your spouse or other good friend.



"CQ DX, CQ DX..."

The price is a reasonable \$25 per person, so send your check and menu choice to Bob Wilson, NQ6X, to be assured of a seat. This occasion is always a biggie, so reserve your place early!

NCDXC Christmas Holiday Meeting

Thursday, December 8, 1994

Reservation Request

Name _____ Callsign _____

Number in party _____

New York Steak _____ Salmon _____ Salad _____

The price is \$25 per person. Amount remitted: \$ _____

Send this form with your check to:

Bob Wilson, NQ6X, NCDXC Treasurer

1743 Valpico Drive

San Jose, CA 95124

DXer

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



November 8, 1994

An Interim Bulletin

This DXer as you can see, is an interim attempt to apprise the membership of the monthly meeting at the Dunfey Hotel Friday Nov. 11, & the Christmas Dinner Dec. 8th at the Bold Knight Restaurant in Sunnyvale. Details on back page. Please make your choice of entree and send in your check to Bob Wilson, NQ6X.

The meeting of the NCDXC in this month of November will be held once again at the Dunfey Hotel in Burlingame, November 11, 1994. The Board of Directors will have their meeting starting at 6 P.M. with dinner for all starting at 5:30 P.M. The general meeting will start at 8:00 P.M. with president K6ITL, Knock Knochenhauer presiding. This month, the program will consist of slides made by KA6W and presented by Garry Shapiro, NI6T. The sparse return of the questionnaire was very disturbing. The general membership doesn't seem to care where or when the meetings are being held. We hope for the speedy return of the NI6T computer, and hope to see a proper DXer printed soon.

Get Well, Eric!

As many of you know, Eric Edberg, W6DU is still recuperating at home after surgery. The DXer and his many friends hope he will soon be back on the air, and showing up at the meetings as secretary of the NCDXC. Give him a call!.

QRP LIVES!

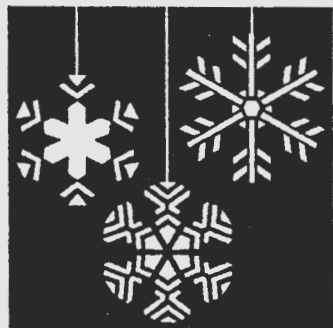
The October meeting at the Dunfey featured a very fine talk on Qrp by Wayne Burdick, N6KR. His presentation was so very convincing that W6VG got down to 8 watts and worked many countries on 17 meters. Of course the competition was not too great! See you on Qrp.

NCDXC DX-LADDER

CALL	HONOR ROLL			DX TOTALS			RTY	DX BAND TOTALS					OTHER BANDS					5BAND WAZ	
	MIX	PH.	CW.	MIX	PH.	CW.		10m	15m	20m	40m	80m	160m	06m	12m	17m	30m		
K6DC	326			375	211	217		114	133	312	220	41			8	11		40	
W6BSY	326	326		373	367													40	
W6KH	326			370				130	159	327	138	115		35				40	
K6RQ	326			368				120	197	310	130	90		5				40	
W6ISQ	326	326	326	367	360	335		257	250	250	262	179			43	67	43	196	
W6ZM	326	326		366	361			149	157	322	101	120						40	
W6RJ	326			362				200	200	300	200	294						200	
K6MA	326	325	324	361	349	332		270	305	329	257	140		10		190	243	153	188
K6PU	326	326	318	359	350	327		200	200	300	200	100							
K5YY	326	326	326	357	354	334		174	239	346	222	274		168	42				40
W6CF	326			355	294	185		204	239	306	178	138							40
W6OAT	326	317	322	355	335	344		278	318	343	288	220							199
W6ZKM	326	326		352	352			268	261	290	169	141							185
K6OZL	326			351				100	100	100	100	100							
W4RIM	326			349															40
W6LQC	326	326		348	348	89		100	100	100	100	100							40
W6XP	326	326		348	348														
WA6AHF	326	326		347	347		272	100	100	100	100	100							40
W6DU	326		318	347	310	334		231	267	322	166	114							
W7XA	326			346				277	298	309	174	137							196
K6RK	326	322	321	344	338	326		100	100	100	100	100		107					40
W6GO	326	323	326	343	340	335		290	303	331	292	222		60					200
N6JV	326	319	326	342	328	335		270	252	302	259	210		84		156	185	156	195
W6TC	326		325	342		334		260	234	275	271	188		4		152	157	142	200
WB6ZUC	326		326	341	1	333		189	258	316	169	111							
WB6CUA	326	325	320	339	335	325		100	100	100	100	96							176
NB6L	326			339	267	242		144	180	255	145	132							40
W6OSP	326			335															
N6ST	326			335	313	275		209	244	307	149	84		2		4	1	1	182
WX6M	326	326		334	334	155		174	172	216	133	112		17					40
WG6P	326	326	326	332	332	327	190	218	260	332	230	130		14		38	91	60	142
WA6SLO	326	326		331	331			304	317	331	235	239		7	18	174	142	1	194
W6HXW		326		327	327														
WA6TJM	326			327	261														
N6HR	325			348				100	100	100	100	100		4		3	6	81	187
AJ6V	325			335	238	276		153	177	268	139	63		6					40
K6LQA	324			347															40
K1ER	324	321		344	339	301		212	252	340	218	123		1		110	146	133	165
W6NPY	324			340	200	300		100	100	100	100	100							40
W6FAH	324	321		329	327	298		244	286	320	226	158							187
W6YWH	324	324		329	329			146	195	266	172	128		5					
W8MEP	324			328		148		100	100	100	50	35		1					40
K6DT	323	322	322	352	336	328		295	315	349	253	162							193
W6BJH	323			349	192	313		120	117	187	117	100							191
N7NG	323			348				244	273	315	244	163							40
W6IEG	323	323		333	333			17	33	290	3	3							40
K6LM	323	322	322	331	330	325		100	100	100	100	100		6					
W6DPD	323	323		330	330														40
W6TEX	323			328	289	302	141	100	100	100	100	100							40
WB6WKM	323			328	100	100		100	100	100	100	65							40
AF6S	323			323		319		270	294	308	228	149			145	205	120		39
K6WR	322	322		354	354			100	100	100	100	100							40
W6KOE		322		341															40
K6KLY	322	322		330	330	16		240	212	227	130	110		70	3				161
W6RGG	321	321		349	346														
K6WD	321			337		289		100	100	100	100	65							40
W6NLG	321	319		326	324	100		100	100	100	26	6							40
W6JD	320			339	238	322		109	166	329	197	46							40
AG6Q	320			326	312	228		179	226	309	169	143							149
WD6EKR		320		324				214	280	320	110	89			15	14			
KI6WF	320	320		324	324	135		258	295	322	176	114		4		26	59	2	175
KG6AM	320			322	312	236		204	257	279	61	33							40
K6HHD	319	318		328	327	29		238	235	270	102	94		9			2		40
NQ6X	319	319		323	321			100	100	100	100	100							

NCDXC DX-LADDER

CALL	HONOR ROLL			DX TOTALS			RTY	DX BAND TOTALS					OTHER BANDS					5BAND WAZ
	MIX	PH.	CW.	MIX	PH.	CW.		10m	15m	20m	40m	80m	160m	06m	12m	17m	30m	
W6PHF	318			350	336													
AN	318			339	288	287		281	281	307	177	118			68	100	41	40
JLU	318			324		309		169	157	224	130	90	6		3		5	
WN6R	318	317		318	317	200		215	300	317	155	150						109
W6TSQ				363				290	300	300	330	258						200
W6JZU				331				75	115	255	22	12						40
W6FGD				330	275	289												
N6OJ				329	275	105												40
WB6UOM				328	319	5		46	51	224	3							40
KR7Y				328	307	303		182	221	297	162	125						177
WR6R				327	312													
NI6T				323	284	290	53	214	234	280	230	176	28		147	171	139	187
AI6L				321														40
WB6OTB				321														
KN6EL				317	170	291		313	150	179	84	33	6					130
WA8LLY				316	300	286		244	268	273	126	38	6	57	142	134	2	
NW6P				316														
WB6GFJ				314	300	70		203	225	285	125	62						40
K6LRN				314	225	264		106	138	273	133	40	10					
AA6YQ				314	289	268		179	185	264	151	97						
WB6KJE				313	313	1												
K4UVT				313	249	175		65	112	293	88	24	2			8		
N6EK				312	271	285		211	252	287	192	87	14					
WA6BSS				310	310	3		143	177	250	59	26						40
N6JM				310	299	256		212	232	277	135	87	17		2	1	5	161
K6ZUR				310	97	308		155	182	237	175	102						40
KN6J				309	301	287	245	218	210	200	152	165	108					
K6TMB				308	304	248		215	245	292	140	116						180
KG6LF					307			182	146	214	81	90	3					164
TUI				306	305	1		109	125	187	125	116						158
6XY				306	289	54		124	137	226	8	3						107
NT6G				305	286	266												
KG6I				304	280	269	80	193	219	277	182	133	42	12	97	145	122	182
AA6MV				300	293	259		183	196	264	127	44						
WA6CTA				293		252		139	155	227	86	9	2			22	41	40
K6SIK				286	282	140		183	186	262	128	120						200
NG6X				285														40
KE6WL				282	254	250		217	243	267	170	60	8					174
N6OND				281	209	72		173	119	110	51	7	2		7	16	73	40
K6XC				276	186	219	38	121	117	192	61	9	8		11	26	9	133
KA6ING				274	273	93		273	2					52				40
N3AHA				268	243	154	1	129	160	194	58	20	3			14	1	122
N4QJ				268	194	193		127	130	138	123	81	10		1	5	8	168
W6SYL						265												
WD6EKR/M					261			92	216	167	4	3						40
KD6GC				258	42	216												
WW6D				248	121	225		84	134	188	93	40						33
AD6E				245	2	245		117	134	178	116	32	3			3	1	145
WA6O				235				89	52	144	3	19						40
KA6BIM				221	216	116		138	161	181	71	44	10			1	3	39
K6AFL				213	195	18		31	16	110	36	6			2	12		
N6LTN					213													
AB6EQ				212	200	96		104	60	173	36	1			16	13	8	113
KB6MXH				211	130	185		104	110	116	9				7	6	1	
AA6TA				208	200	20	45	93	54	97	1				3	11		
N6VAW				202	184	103		59	34	100	8							
KC6ESL				193	193			193										
LF					186			93	79	149	10	1						
6TD				178	95	125		90	55	101	39	3	1					
KI7N				151														
WC6I																		188
AA6Z																		40



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