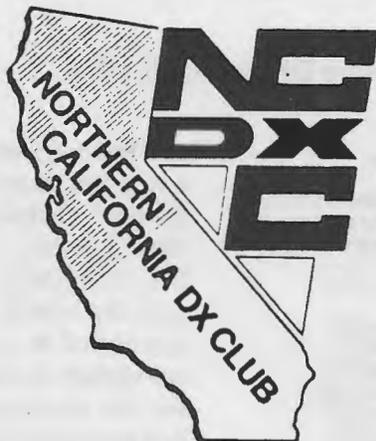


THE



DXer

APRIL 1988

VOL XLI - NUMBER 4

CALENDAR

- Apr. 1 North American Crawl, CW.
- Apr. 1 Motorcycle Repair Clinic, by W6REC.
Lesson 3: Cleaning Used Transmission Grease. (BYOG)
- Apr. 6 Last day to submit ARRL DX Contest logs to ARRL, and summary sheets to K4UVT.
- Apr. 8 North American Crawl, Phone.
- Apr. 9  Electronic flea market, Foothill College.
- Apr. 9-10 North American QSO Party, CW.
- Apr. 15 Australian Crawl, CW.
- Apr. 16-17 North American QSO Party, SSB.
- Apr. 22 Australian Crawl, Phone.
- Apr. 22-24 Visalia International DX Convention, Grosvenor Holiday Inn, Visalia.
- Apr. 23-24 Helvetia Contest.
- Apr. 27 Samuel F. B. Morse's Birthday, 1791.
- Apr. 27 Deadline for inputs to May DXer.
- Apr. 29-May 1 Dayton Hamvention, Dayton, OH.
- May 8 Mother's Day.
- May 13 NCDXC May meeting.
- May 14  Electronic flea market, Foothill College.
- May 14  Antique radio swap meet, Foothill College, Electronic Museum parking lot.
- May 14-15 USSR CQ-M Contest.
- May 14-15 County Hunters SSB Contest.
- May 21 Armed Forces Day.
- May 28-29 CQWW WPX CW Contest.

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**NO REGULAR MEETING IN APRIL
SEE YOU IN VISALIA!**

FROM THE PREZ

Hooray and many thanks from the B.O.D. and yours truly! The Great Kahuna reports that our combined score for the 1988 ARRL Contest(s) is approximately 28 million points. Each person, no matter how many points offered, should reflect on the team spirit we generated ... let's keep the fire burning and be certain to submit our scores to the ARRL (Club Affiliation NCDXC) with copies of summary sheets to Bob, K4UVT, and then claim your badge! Every point will show the SCDXC we meant business in '88.



Ted, KA6W

Further in this DXer you will find a report offered by Lou, K6TMB, concerning the repeater expansion issue. This report is the result of effort spent by Chuck, AA6G, John, K6LLK, and Lou, K6TMB, reviewing the vote comments and directing the Repeater Committee to decide the most logical solution to the technical question of repeater expansion. This report has been reviewed and unanimously accepted by your B.O.D. I highly recommend each of us join forces to help put the technical solution in place. Please contact John, K6LLK, if you have any equipment or useful assistance to offer the club toward this effort.

It's that Ol' April convention time again. I hope to see many of you in attendance who find it difficult to get to our Bay Area meetings. Please look for me ... I'm the bald one with a mustache - if Catperson hasn't removed it too!

Vy 73 es gud DX,
Ted, KA6W

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FLASH - STOP THE PRESS!!!

- SPECIAL NCDXC MEETING CALLED -
- MIKHAIL GORBACHEV TO SPEAK -
- SEE PAGE 11 FOR FULL DETAILS

The DXer - April 1988

THE NORTHERN CALIFORNIA DX CLUB, INC.

P.O. 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 Pres.	Jim Knochenhauer	K6ITL
Secretary	Roger Gearhart	W6PKB
Treasurer	Frank Holst	W6ZKM
Director	Lou Beaudet	K6TMB
Director	Chuck Vaughn	AA6G
Director	Ron Panton	W6VG

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PO Box 473, Redwood Estates, CA 95044

Send DX ladder reports to

Jim Hicks, KK6X
2260 Santa Fe Dr., Santa Rosa, CA 95405

NCDXC REPEATER W6TI/R

Input 147.96 MHz; Output 147.36 MHz;
Simplex 147.54 MHz

Trustee	Bob Vallio	W6RGG
Repeater Committee chairman	Lou Beaudet	K6TMB

NCDXC THURSDAY NIGHT NET

On W6TI/R Thursday at 8:00PM local time.

Operations Manager	Ralph Hunt	AG6Q
DX News	Phil Garrahan	W6LQC
Propagation	Al Lotze	W6RQ
Contest News	Bob Dorsey	K4UVT
Westlink	Dave Bottom	KD6AZ
Swap Shop	Steve Munro	KZ6Z
QSL Info	Jan O'Brien	K6HHD

NCDXC DX BULLETIN BROADCASTS

Trustee	Bob Vallio	W6RGG
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W6TI, the NCDXC memorial station, broadcasts
DX bulletins each Sunday at 1800 PST
(Monday at 0200 GMT) on 7.015 and 14.002 MHz.

MINUTES OF THE MARCH 1988 MEETING OF THE NCDXC

The March meeting of the NCDXC was held at Harry's Hofbrau, Palo Alto, on March 11, 1988. The vice president, Knock, K6ITL, called the meeting to order at 7:33 P.M. President Ted was away on family business but sent his best wishes via Knock. Guests were introduced by Nolan, KB6LT. The evening's program on the computer program MINIPROP was presented by our own AA6G, Chuck Vaughn. The program calculates propagation probabilities given the solar flux, your location, angle of propagation and location of receiving station. There was considerable audience interest and participation. Chuck offered to copy the program - just send him a request and a blank disk with self-addressed, stamped disk mailer. Knock offered condolences on behalf of the club to Hal, N6AN, on the recent passing of his XYL. The treasurer's report was approved as published. Once again, Frank, W6ZKM, escaped any embarrassing questions of where the money went. The secretary's reports on

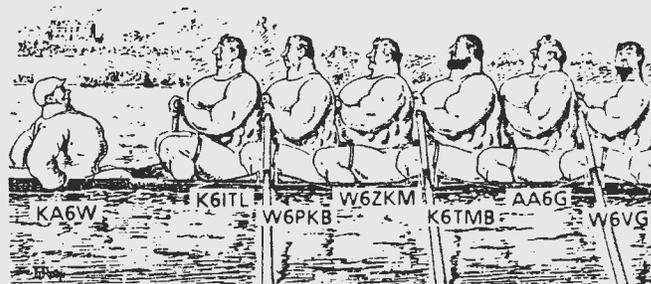
the February meeting and the last BOD meeting were approved as published. There was a second reading for Nadine Ayers, N6HKX, who was warmly welcomed into the club. Joe Butler, K5OS, had been dropped from the roster as his check was not received. It seems that the check was lost in the mail. Frank, W6ZKM, succeeded in straightening out the matter and Joe is welcomed back with open arms and with an apology for the mail system. An advisory motion was made and seconded that we join with the SCDXC to present a joint plaque to John, ON4UN, for outstanding service to amateur radio. The motion passed. Bob, K4UVT, gave a report on the SSB portion of the recent ARRL DX Contest. How did the SCDXC guys do? Uncle Vern, W6ERS, presented the club with a collection of old *DXers*, complete with original photos, for our archives. The collection had belonged to Dick Czeikowitz, W6ATO, a long time member and now a silent key. The meeting adjourned at 9:13 P.M.

A great time was had by all.

Respectfully submitted,
Roger A Gearhart, W6PKB
Secretary

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MINUTES OF THE MARCH 1988 MEETING OF THE NCDXC BOARD OF DIRECTORS



The NCDXC BOD - Steering a Straight Course

The president, Ted, KA6W, called the meeting to order at 7:13 P.M. at the home of W6VG. Present were club officers K6ITL, W6ZKM, W6VG, AA6G, KA6W, K6TMB and W6PKB, and guests W6MKM and K6LLK. The treasurer's report was given by Frank, W6ZKM. Steve, W6MKM, did his usual outstanding job with the raffle at the March meeting, reporting a net income to the club of \$39. The report of the Repeater Technical Committee, dated March 16, 1988, as amended, was unanimously accepted by the Board with special thanks to the authors for a job well done. In December 1987, the Board had tabled a motion "that the BOD direct W6RGG, the W6TI station trustee, to send copies of the license to W6GO and K6ANP (WW6D) for their files." That motion was revived. An amendment to the original motion to send copies of the license for a period until repeater

expansion is implemented but not to exceed 12 months was made by KA6W and died for lack of a second. A roll call vote on the original motion was requested. The motion was defeated by a vote of 1 for, 5 against with 1 abstention, KA6W yea, K6TMB no, K6ITL no, W6VG no, AA6G no, W6ZKM no, W6PKB abstain. Bad news department; the persistent rumor that the SCDXC had indeed beaten us in last year's ARRL DX contest has been confirmed. ARRL has admitted to an accounting error. Programs for the May and June meetings were discussed. The Board voted to repay \$38 to AA6G for the purchase of overhead projection transparency blanks. It was unanimously resolved by the BOD that the NCDXC offer moral support to the new Packet Spotting Network in their efforts to procure a repeater pair.

The meeting adjourned at 9:38 P.M.

Respectfully submitted,
Roger A. Gearhart, W6PKB
Secretary

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TREASURER'S REPORT - MAR. 1-31, 1988

Checking account activity

Feb. check balance	\$3402.91
Deposits from dues	64.00
Other receipts	391.25
Subtotal	\$3858.16
Accounts payable	(876.97)
Current balance	\$2981.19

Bank of America Savings \$11848.50

Reserve Fund/Savings Account

Dues Life Members 86-87	\$ 624.00
Dues Life Members 87-88	624.00
QSL Cards	500.00
Subtotal	\$1748.00
At depletion of reserve fund-	
Savings balance	\$10100.50

Certificate of Deposit American S&L
1 yr 7.411% annual yield \$5995.21

Frank H. Holst, W6ZKM
Treasurer

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A high-power lid known as Paul
Had trouble in timing his call.
While DX was still sending
He kept right on tailending,
Thus driving good ops up the wall.

Tucker D. Ott

DAVE DUFF, VK2EO - SILENT KEY

A recent letter received from the family of Dave Duff, VK2EO, advised me that after sudden illness and surgery, Dave passed away during the 1986 Christmas holidays.

Many Old Timers will remember VK2EO as a top-notch DXer and contester.

I have worked Dave many times of CW. He was a great operator and a member of the A-1 Operators' Club. His signal was often the loudest coming through from Down Under. I had the pleasure of meeting him and enjoying a hospitable and pleasurable afternoon with his coworker VK2VA in Sydney in October 1966.

Many of us will respectfully sorrow over the demise of this world famous Australian ham.

Tony Borgia, K6DR

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ARUBA CARDS ACCEPTED AS OF APRIL 1

As of April 1, 1988, you may submit Aruba cards for DXCC credit. All contacts must have been made on or after Jan. 1, 1986. If you previously claimed credit for Netherlands Antilles, you must resubmit a valid card for the Netherlands Antilles. This would be a card from Bonaire or Curaco, or from Aruba dated Dec. 31, 1985 or earlier.

The DX Bulletin

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WHAT HAPPENED TO THE BOUVET OPERATION?

According to *QRZ DX*, SM7DSE, aboard the POLAR STERN, was unable to land on Bouvet Island because of heavy fog; the ship's helicopter could not be used because of the fog. This is the story being circulated by SK0MT, the QSL manager for SM7DSE's operation as 3Y0FP. SK0MT was in daily contact with SM0DSE and should have the real story. Other rumors are floating around, but *QRZ DX* believes this story to be the most credible.

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AT0 SPECIAL PREFIX FOR INDIA

Tom, K3TW/WU2JTW, has been granted permission to use the special callsign AT0A during the CQ WW WPX contests, March 26-27 and May 28-29. QSL via KE3A.

NEWS FROM LLOYD AND IRIS

Sri Lanka, Asia
28 February 1988

Dear Friends,

We have concluded our operation in Sri Lanka as W6KG/457 with close to 5,000 QSOs with amateurs on 10 through 40 meters, half CW and half SSB, and QSOs with 137 countries.

We were in Sri Lanka last year but did not operate there until this visit. Both times we stayed at the QTH of Paul, 457PVR. We used his tri-band beam and our ICOM 751A transceiver. He and his family were very kind to us. His wife is a good cook.

A year ago, Iris was in the hospital with a broken leg for about two weeks. Many amateurs visited her in the hospital. It was a great pleasure to see them again on this return visit. This time Iris is walking!

We attended a meeting of the Radio Society of Sri Lanka and were very happy to be elected honorary members of that organization.

From here we go to Indonesia. We hope (but are not sure) that we can obtain a license there.

73 es 88

Lloyd Colvin Iris Colvin
W6KG W6QL

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WESTERN SAHARA STATUS CLARIFIED

On February 12, the ARRL Awards Committee unanimously accepted the ARRL DX Advisory Committee's recommendation that Western Sahara, S0, be added to the ARRL DXCC Countries List. However, further consultation between the two committees was required to resolve whether S0 was to be a brand-new listing or a reactivation of Rio de Oro, EA9.

The ARRL DX Advisory Committee and the ARRL Awards Committee have jointly announced that Western Sahara will be a reactivation of the deleted Rio de Oro (Spanish Sahara) listing. Thus Rio de Oro is removed from the list of deleted countries and returns to the ARRL DXCC Countries List under the name Western Sahara. Recent and continuing SORASD operations are creditable for DXCC, but cards will not be accepted before June 1, 1988. Please hold SORASD cards for submission beginning June 1.

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SOLAR CYCLE PEAKING EARLY

According to the Director of Solar Physics Research at NOAA's Space Environment Laboratory, Boulder, CO, the peak of the next solar cycle could occur much earlier than expected and could possibly be the most intense ever measured. Quoted in the March 9 *New York Times*, Dr. Patrick McIntosh believes that the

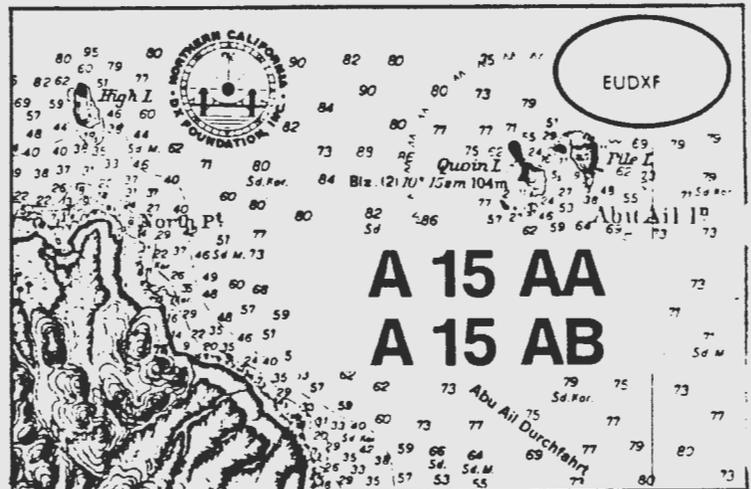
solar maximum could occur as early as late 1988. If the eleven year cycle persisted, 1992 would have been the maximum. Solar activity levels, he said, could reach normal maximum levels by this summer if current trends continue. He bases his findings on early indicators of a massive build-up in three gauges. These are total number of sun spots, 10 cm radio noise rate of increase and the progression of "solar crowns" (ribbon-like loops). Dr. McIntosh cautions that predicting solar activity is risky and the currently rapidly rising levels could flatten out.

Amsat Satellite Report

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A14/A15/A16 ABU AIL

Dieter, DK9KD, of the European DX Foundation (EUDXF) provides the following information about the callsigns used by the recent DXpedition to the Abu Ail Islands. And, tells us how to acquire our very own Abu Ail Callsign...



"Here is an explanation for the call-sign which was used [from Abu Ail]. In the past all kind of call-sign were used. We tried to find a way to give this island a call-sign for example like Spratley [sic]. After discussing this matter with the DARC we came up with the not issued call - A1 -. We, the EUDXF, have been given the right by the owner of the island to issue a license and in the future we will supply a license to every one who likes it even if he is not going to use from the island.

"It will be valid for 5 years, and will cost \$50.00. The block - A15-, A16-, and -A14- will be used. The captain who is responsible for the island, and the light-house agreed to this solution.

"This license will be made in a form that it can be shown in any shack, and we hope to use the moneys out of this sale to further dx-peditions all over the world."

Tnx QRZ DX

A MODEST PROPOSAL

[Editor's note: The following is a letter written by Jay, W6GO, to Gary, WA6VEF. Gary is the Pacific Division representative to the ARRL Contest Advisory Committee. Those who have an opinion on the proposal should express that opinion by writing a letter to Gary. Personally, I think the idea makes a great deal of sense.]

As my representative to the CAC, I would appreciate your support in presenting the following proposal:

This is a proposal to add a new contest scoring category, especially applicable to the DX Contests. My proposal is to add a category called "Single Operator Assisted." This would contrast with the present Single Operator category, which would be redesignated "Single Operator Unassisted."

The "Single Operator Unassisted" would, as at present, receive no assistance from others either in person or over the air in the form of spotting nets, packet networks, or the like. The "Single Operator Assisted," however, could accept all assistance from nets, loggers/dupers, etc., but would be the only person who actually communicated over the transmitter during the contest. The "Multi-Operator Single Transmitter" category would include those stations where more than one operator uses the transmitter.

This new category will encourage operations assisted by the newly emerging packet radio networks and will provide a category in which similarly equipped stations can compete with each other. The present categories, as written, place a "Single Operator Assisted" in lopsided competition with the well-orchestrated "Multi-Single" which really are in a class by themselves. This proposal will eliminate this mismatching of station capabilities.

Not part of this proposal but included for consideration is the follow-on concept of a possible rewrite of the contest summary forms. A statement could be provided for "Single Operator Unassisted" to sign stating that "Absolutely no assistance was received in any form, either in person or electronically, in operating, logging, spotting or duping, including nets and alerting systems." Lacking this signed statement, Single Operators would be automatically classed as "Assisted." Such a statement would eliminate the present confusion of some contest entrants who do not understand that they are not "Single Op" when they listen to a spotting net or receive logging help from an unlicensed assistant.

I feel that this is a very simple, easily defined rule expansion that will encourage contest participation. Your consideration is requested.

73.

Jay O'Brien, W6GO

DON'T FORGET!! INTERNATIONAL DX CONVENTION, APRIL 22-24, VISALIA GROSVENOR HOTEL.



Banquet Scene, Visalia, 1987. (The SCDXC Crowd.)

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MAKING CHANGES TO THE NCDXC ROSTER

New Call? Moved? New phone number at work? New phone number at home? New expiration date on your license? All such changes should be sent to the NCDXC Secretary, not to the DXer editor! DXer mailing labels are printed from the master membership roster, prepared and maintained under the direction of the Secretary. Sending them to the DXer editor will only delay the change and create extra work in the process. Eliminate the middle man - send your changes to the Secretary! Thanks!

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MOST-WANTED OBLAST SURVEY

As an aid to NCDXC Oblast hunters, Steve, WC6I, has volunteered to prepare a most-wanted list that Oblast chasers can use to alert one another via 2 meters or via the telephone. The list will be published in an upcoming issue of the DXer, and will be a regular feature if enough support is received. Those wanting to participate should send their most-wanted list to Steve at PO Box 62344, Sunnyvale, CA 94088-2344.

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ANTENNA RAISING ACCIDENT

[Editor's note: The following letter was written from a ham to his insurance company, following an antenna raising accident. It is reprinted here to encourage all NCDXC members to be careful next time antenna work comes up.]

I am writing in response to your request for additional information for block No. 3 on the accident reporting form. I put "poor planning" as the cause of my accident. You said in your letter that I should explain more fully and I trust that the following details will be sufficient.

I am an amateur radio operator, and on the day of the accident I was working alone on the top section of my 80-foot tower. When I had completed my work, I discovered that I had, over the course of trips up the tower, brought up about 300 pounds of tools and spare hardware. Rather than carry the now unneeded tools and materials down by hand, I decided to lower the items down in a small barrel by using a pulley, which fortunately was attached to the gin pole at the top of the tower.

Securing the rope at ground level, I went to the top of the tower and loaded the tools and materials into the barrel. Then I went back to the ground and untied the rope, holding it tightly to insure a slow descent of the 300 lbs of tools. You will note in block No. 11 of the accident reporting form, that I weigh only 155 lbs.

Due to my surprise of being jerked off the ground so suddenly, I lost my presence of mind and forgot to let go of the rope. Needless to say, I proceeded at a rather high rate up the side of the tower. In the vicinity of the 40-foot level, I met the barrel coming down. This explains my fractured skull and broken collarbone. Slowed only slightly, I continued my rapid ascent, not stopping until the finger of my right hand were two knuckles deep into the pulley.

Fortunately, by this time, I had regained my presence of mind and was able to hold onto the rope in spite of my pain. At approximately the same time, however, the barrel of tools hit the ground and the bottom fell out of the barrel. Devoid of the weight of the tools, the barrel now weighed 20 pounds. I refer you again to my weight in block 11. As you might imagine, I began a rapid descent down the side of the tower. In the vicinity of the 40-foot level, I met the barrel coming up. This accounts for the two fractured ankles and the lacerations of my legs and lower body.

The encounter with the barrel slowed me enough to lessen my injuries, when I fell onto the pile of tools and fortunately, only three vertebrae were cracked. I am sorry to report, however, that as I lay there on the tools, in pain, unable to stand, and watching the

empty barrel 80 feet above me - I again lost presence of mind. I let go of the rope.

*Florida Skip via W6ISQ & KOPP.
Tnx also K6XM.*

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ANTIQUE RADIO SWAP MEET DATES SET

NCDXC members who are also old radio buffs (there are quite a few in the club!) will be happy to hear that there will be a total of four antique radio swap meets again this year at Foothill College. The meets, sponsored by the California Historical Radio Society, will be held in the parking lot just above the Electronics Museum. The first has already slipped by, but there are three to go: May 14, August 13, and November 12. The May and August swap meets will take place on the same day as the regular electronic flea market, which will be held in a lower parking lot.

Jim, W6CF

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MARCONI DAY SPECIAL EVENT

Guglielmo Marconi will be honored by Amateur Radio operators in the United States, England, Ireland, Canada, Newfoundland, and Italy on April 23, 1988. Marconi, who first conceived the idea of using electromagnetic waves for signaling, will be honored by an Amateur Radio special event -- International Marconi Day (IMD).

GB4IMD in Cornwall, England, will be operating from Poldhu Cover where Marconi carried out the first trans-Atlantic transmission. EI2IMD will be operating from the site where Marconi carried out the Irish experiments in Crookhaven. In the US, K1VV/IMD will be at Cape Cod South Wellfleet where the first USA to Europe contact occurred.

The Society of Newfoundland Radio Amateurs (SNRA) will be operating VO1IMD at Signal Hill in St. Johns where the first trans-Atlantic signals were heard by Marconi on December 12, 1901. Sydney Amateur Radio Club of Nova Scotia will establish VE1IMD at the Marconi Museum in Glace Bay, and IY4FGM will operate from Marconi's birthplace in Bologna, Italy.

Operating frequencies are on five bands, SSB, as follows: 3.770- 3.780 MHz, 7.070-7.080 MHz, 14.270-14.280 MHz, 21.250-21.260 MHz, and 28.530-28.540 MHz. Special awards are offered to amateurs who work any five of the six IMD stations. Applications should be sent to Cornish Radio Amateur Club, PO Box 100, Truro, Cornwall, United Kingdom TR1 1XP.

ARRL Letter

**LATEST ARRL DX CONTEST RESULTS
NCDXC TOTAL CLAIMED 27,617,203 POINTS**

Following is a summary of NCDXC contest scores for the recent ARRL DX Contest. Remember, three things must happen if your score is to count for the NCDXC in the club competition. First, you must submit your score to the ARRL! In order for it to count, you must mail it no later than April 6. Also, for it to count for the NCDXC, you must indicate on your report form that you are submitting your score in behalf of the NCDXC. Finally, you must notify Bob Dorsey, K4UVT, of your score so that he can submit a club claim to the

League. Bob needs the data to prepare a club entry. Send a summary of your final score by April 6 to

Bob Dorsey, K4UVT
PO Box 61733
Sunnyvale, CA 94088
Phone: (408) 247-4043

In the listing below, an asterisk (*) denotes a score has been received by press time. If your call is not listed, or if your call does not have an asterisk next to it, send your score to Bob!

CW scores

*KG6AM	11232	*K6PU	158670
*VE2AQS	390852	AK5Q	1512
*KD6AZ	105456	*AG6Q	24543
*W6BIP	170352	W6QHS	215946
*W6BSY	40650	*W6REC	120345
*W6CF	53628	*W6RJ	70584
*K6CXT	28152	*K6RK	24003
*K6DR	133029	N6RO	2818881
*AD6E	64881	*K6RQ	67374
*N6EA	54000	*NC6S	30888
*W6ERS	249084	WX5S	8427
*W6FAH	1980	*K6SIK	4368
*W6FGD	68970	W6SYL	5511
W6FSJ	99500	*AK6T	899805
*NT6G	11868	*K6TS	17955
KG6GF	1008000	*K4UVT	211950
*N6GG	132825	*AI6V	1238688
*W6GO	869886	*KJ6V	203670
KA6HSM	2208	*W6VG	132696
*K2ITG	188338	N6VV	708000
*N6ITY	1365	*K6WD	22896
KN6J	200000	W6XR	71070
*N6JV	254508	*KD6XY	2772
K6LRN	153300	*W6YVK	15732
*WX6M	22578	*WB6ZUC	9588
*K6MA	190476	K6ZX	15300
*W6MZQ	5670		
*W6NKR	114372		
*W6OAT	308385		
*KE6OT	25200		
WG6P	342102		
*W6PHF	6708		
*W6PKB	30375		

Total CW Claimed Score:
12,441,097 Points

Phone scores

*WA6AHF	132441	*WX6M	244062
*KG6AM	19383	*K6MA	424473
VE2AQS	604800	W7MAP	279045
*KD6AZ	20034	*W6MKM	13113
*W6BIP	208035	*W6NKR	7296
*W6BSY	134550	*W6OAT	132822
KW6C	427284	*KE6OT	73920
*W6CF	15300	*W6PHF	22896
WB6CUA	6300	*K6PU	94242
*K6CXT	65515	*W6QDE	1914
AG6D	469200	W6QHS	227020
*K6DR	167280	*W6REC	229620
*WD6EKR	45264	*W6RJ	51333
*W6ERS	52440	*K6RK	41280
WB6EXW	3978	N6RO	3966534
W6FAH	22800	*K6RQ	141006
*W6FGD	78975	*NC6S	114939
*NT6G	36936	*K6SIK	522588
KG6GF	41760	*AA6T	117192
*N6GG	27084	*AK6T	1305390
*W6GO	1202850	KA6W	1908
*K6HIH	74256	*WA9WYB	66300
*K6HNZ	1012785	*NQ6X	49278
KA6HSM	23625	*KG6XF	26460
*W6HXW	48048	W6XR	285000
*K2ITG	436785	*KD6XY	15792
*K6ITL	215988	*W6YVK	29223
*N6ITY	12672	*AA6Z	22512
KN6J	421290	*KE6ZE	21780
*N6JV	314496	*W6ZKM	148248
KN6K	40000	*W6ZM	24300
*WA6LIJ	46008		
K6LRN	19215		
*N6LTN	3900		

Total Phone Claimed
Score: 15,176,106 Points

ROSTER CHANGES

Please make the following changes to the Nov. 1987 edition of the NCDXC membership roster.

NEW MEMBER -

N6HKX Nadine Ayers, 36590 Reynolds Dr., Fremont, CA 94536. (415) 791-7633 (H), (408) 256-1177 (W).

OTHER CHANGES -

W6MKM Work phone should be (415) 926-3106.
W6PKB Work phone should be (415) 926-2709.
K6TMB Work phone should be (408) 562-3274.

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REPORT TO THE NCDXC BOARD OF DIRECTORS OF THE REPEATER TECHNICAL COMMITTEE ON REPEATER EXPANSION

This report is in response to the BOD appointed AA6G Subcommittee's request that the Repeater Committee review the repeater expansion options proposed in the February *DXer*. The Repeater Committee (K6LLK, WB6OOL, NR7E, and K6TMB) has reviewed the proposals and respectfully submits the following position report to the NCDXC Board of Directors.

Both Dave Lesson, W6QHS, and Jay O'Brien, W6GO, in letters also published in the February *DXer* concur with the Repeater Links Subcommittee Report on the fact that any of the four proposals are technically feasible and state that any of the proposals could either be funded by the club or by assessing the individual members.

The Repeater Committee had three areas of concern:

- Funding (equipment, site, and miscellaneous operational costs).
- Installation and Maintenance.
- System Management and Control.

I. Funding.

The Repeater Committee had a real concern about how to fund the three proposals requiring either full or partial funding by the club or the membership. Full or partial funding of any of the proposals would require both BOD and membership approval because of the amount of money involved. The alternative would be to assess the membership some amount that would cover the installation of the proposed system. The Repeater Fund, contributions or gifts could also be alternative sources of funding.

Our concern is that assessments of \$15 to \$20 per member would result in many of the members not honoring the assessment, with the subsequent loss of these members to the club.

II. Installation and Maintenance.

At this point, the committee is unaware of anyone volunteering to either install or maintain any of the proposals requiring remote sites and equipment. The members of the present Repeater Committee will not commit to the installation or maintenance of any remote site.

III. System Management and Control

The NCDXC owns and controls the repeater on Black Mtn. The Repeater Committee feels that it must be able to control any link for which it has responsibility. We do not have that control for any proposal that uses 147.36/96 to interface with Black Mtn.

In general, the Repeater Committee feels that the remote users should own, and provide identification on, links inbound to the Black Mtn. repeater.

Repeater Committee Recommendation

Club Responsibilities:

1. The NCDXC provides a 420 MHz port at the present repeater site for a duplex inbound/outbound link.
2. The club establishes and publishes operational and performance parameter requirements for links using the port.
3. Club only maintains equipment located at the Black Mtn. site.
4. Cost of providing the 420 MHz port will be provided from the Repeater Committee budget for the remainder of this fiscal year and fiscal 1989. The estimated amount of funds available to the Repeater Committee during fiscal 1988/89 is approximately \$2700.00, less about \$900.00 for operating costs and planned maintenance. The remaining amount required will be requested from the club's general fund.
5. The club will control the port interface.

User Responsibility:

1. User bears the cost of equipment at remote sites.
2. User pays for remote site operating costs, i.e., rental, etc.
3. User is responsible for providing link identification.
4. User is responsible for meeting the required operation and performance parameters.
5. Link owners or representatives are encouraged to input information relating to link operation to the Repeater Committee.

Lou Beaudet, K6TMB
Chairman,
Repeater Technical Committee.

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LETTERS LETTERS LETTERS

Editor, the *DXer*:

Knowing as I do of your never-ending search for interesting, novel and unique (some would say bizarre) materials for the *DXer*, I submit herewith for your consideration a recipe for rum cake which appeared in the February 1988 issue of the *Lark*, the newsletter of the Livermore Amateur Radio Klub. I

debated whether to submit this to you for the DXer or to myself as Editor of the Jug. It seems to me that rum cakes of the type described in the article would be of interest to contesters. Alternatively, a batch could be made up and force-fed to the members of the Repeater Expansion Committee just before each of their meetings. After considerable reflection, I opted for the latter.

73.

Kip, W6SZN

[The tasty recipe submitted by Kip is as follows.]

BEST RUM CAKE EVER

1 cup butter 2 qts rum 1 tsp sugar 2 large eggs 1 cup dried fruit baking power lemon juice nuts

Sample the rum to ensure its quality and check its temperature. Select a large mixing bowl. Heat over to 350. Confirm the rum's temperature by filling a measuring cup & drinking in one swallow. With electric mixer, beat one cup butter in a large fluffy bowl. Add one seaspoon of thugar and beat again. Check again on rum flavor, opening 2nd quart if necessary. Add 2 arge leggs, 2 cups fried druit, and beat rill high. If the druit gets stuck in beaters, pry loose with drewscriver. Sample the rum again, checking for tonscisciticity. Next sift 3 cups of salt or pepper. Sift in half a pint of lemon juice. Fold in chopped butter with strained nuts. Add 1 babblespoon brown thugar. Wix mel. Grease oven and turn cake pan 350 degrees. Pour whole mess in coven and ake. Test rum once again, and bo to ged.

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de W6QDE -

[Editor's note: The following note was included with W6QDE's DX Contest score.]

Here's my score for the Club. Had a heart attack, cancer, eyes gone bad. 87 years old, but I'm still having fun with ham radio. 73.

Vince, W6QDE

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de W8MEP -

Hello Reprobates, et al:

I want to say hello and let everybody know I'm still alive and well down here in Pacific Grove, and think of coming to the meeting often! Unfortunately, my work sked is so busy and not at all considerate of my favorite past-time (guess what?) that I am unable to make the journey to Harry's Hofbrau except on rare

occasions. However, I do get on occasionally, and do manage to get some of the rare ones - I have enclosed copies of a couple of cards I never thought of getting, much less working! Sometimes I am at the right place at the right time, but must confess Lone Wolfing gets pretty tough ... the chase is very lonely and tedious ... I am thankful that Walt, WD6EKR is on one of the local repeaters and we share frustrations and joys.

I did get tones put into my 2m rig, so need a better antenna now, and I will be able to talk to you all on the DX repeater. I tried the other day with my first ever DX announcement about UI8, and our honorable leader Ted, KA6W, and the venerable (?) Jay, W6GO, came back and said, "Who is that? We can't hear you..." And so it goes.

This has been an extremely good week for me for QSLs - 3 unexpected, and one quasi-awaited - A15AA (!!!), SV2RE/SY, UV100, and S0RASD. WOW! The A15 and SY were tenuous QSOs, and really put me into shock.

So, just a short "I'm alive" note, and humble bragging... See you all at Visalia, perhaps at Harry's, in the pileups, and on the repeater if I can get my act together. In the meantime, take an aspirin every other day, don't smoke, eat an apply a day, and don't call me - stay healthy. The advice I give is "Listen to me now so you won't have to pay me later." No charge.

73's/DX.

Jerry, W8MEP

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de FM5FA -

I am most interested in catching stations from California and especially those who are members of NCDXC. Probably many stations there may be glad to get a QSL from Martinique too? In fact, I would be very glad to get the California award. I tried in the past but missed it for some cards only as I were FY7YQ. No time enough!

Would be glad to have most people from the club.

I am most often of the time on 21090, RTTY mode on the Mondays morning (12 to 17 GMT), but could be for any sked on other mode and band all weekend long and Wednesday and Friday afternoon. If someone could organize rendezvous it would be very appreciated. A deluxe QSL can be sent direct to confirm the QSO or via my QSL manager AJ3H. Thanks in advance.

Pierre.

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WORKING RUSSIANS IN RUSSIAN - THE EASY WAY

by Tom McShane, NW6P

I recently found a table of Russian/English CW Equivalents which I had obtained from a Russian ham back in 1957 when I was first licensed as W2TOD.

My cousin works at the U.N. in New York and speaks Russian. I had her print various Russian phrases I might use on the air. From her phrases I transliterated them into CW characters. The Cyrillic alphabet has 33 characters. 26 are sent the same as English CW. The remaining 7 are unique, sent by running two English CW characters together.

On the list of phrases which follows I have listed the English words followed by the Russian equivalents. Those unique characters are shown as two letters with a line under them, meaning combine the two into one. For example, the Russian letter which looks like a backward "R" is sent as AA, not A space A.

To make this really fun pick out a Russian with a strong signal calling CQ and answer him. He'll come back in English and give you the normal exchange: RST, QTH, name, HW CPY? You reply right off the bat in Russian. When you turn it back he'll most likely jabber away in Russian but you'll be amazed that you'll be able to figure out some of what's being said: 200W, 3 el Yagi, 9C minus, etc. Now it's your turn to give your TX, antenna, WX, etc. in fluent Russian and sign off. Be prepared for a big pileup of Russkies calling. If you answer you'll be in trouble because they'll start right off in Russian!

Have fun.

<u>English</u>	<u>Russian</u>
HELLO	ZDR
(ZDR is an abbreviation for ZDRAWSTWUJTE.)	
GOOD MORNING	DOBROE UTRO
GOOD AFTERNOON	DOBRYJ DENX
GOOD EVENING	DOBRYJ WEMNR
YOUR RST IS _____	WAMM RST _____
I AM HAPPY TO MEET YOU	<u>AA</u> OMNENX RAD S WAMI POZNAKOMITXS <u>AA</u>
MY NAME IS _____	MOE IMA <u>AA</u> _____
I LIVE NEAR SF	<u>AA</u> VIWU OKOLO SF
MY QTH IS (NEAR) SF	MOJ QTH (OKOLO) SF

I ONLY KNOW A FEW SENTENCES IN RUSSIAN	ZNA <u>IM</u> TOLSKO NESKOLSKO PREDLOVENIJ PO RUSSKI
HOW COPY?	KAK SLY <u>MM</u> ITE?
THE WEATHER TODAY IS GOOD (BAD) (PLOH <u>AAA</u>)	POGODA SEGOD <u>NA</u> A H O R O <u>M M</u> A <u>A A</u>
IT IS (VERY) HOT TODAY _____ C	SEGOD <u>NA</u> A (OMNENX) VARKO _____ C
IT IS WARM TODAY _____ C	SEGOD <u>NA</u> A TEPLO _____ C
IT IS SUNNY	IDET SOLNEM <u>NO</u>
IT IS COLD TODAY _____ C	SEGOD <u>NA</u> A HOLODNO _____ C
IT IS RAINING	IDET DOVDX
IT IS FOGGY	IDET TUMANNO
IT IS WINDY	IDET WETRENO
IT IS STORMY	IDET BYRNO
CAN YOU UNDERSTAND MY RUSSIAN?	MOVETE PONIMATX MOJ RUSSIKIJ?
DO YOU SPEAK ENGLISH?	VY GOVORITE PO ANGLIJYSKI?
MY RIG IS ___ W	MOE RIG ___ W
MY ANTENNA IS A EL BEAM. HEIGHT IS _____ METERS	MOE ANTENNY _____ EL LUMN _____ METROW
I WILL SEND MY QSL TO YOU	<u>AA</u> WY <u>MM</u> LIM WAM MO <u>IM</u> QSL
I NEED YOUR QSL	MNE NUVNO WAM <u>U</u> QSL
PLEASE QSL. MY QSL IS SURE.	POVALUJSTA QSL. MO <u>AA</u> QSL WAM BUDER.
GOOD BYE (MY FRIEND)	DSW (MOJ DRUG)
(DSW is an abbreviation for DO SWIDANIA <u>AA</u>)	
THANKS FOR THE QSO	SPASIBO ZA QSO
GOOD LUCK	WSEPO HORO <u>MM</u> EGO
SO LONG, SEE YOU LATER	POKA

**SPECIAL NCDXC MEETING
FRIDAY, APRIL 1
MIKHAIL GORBACHEV TO SPEAK**

The April meeting of the NCDXC has been moved up one week to April 1, in order to accommodate the busy schedule of our speaker, Mr. Mikhail Gorbachev. Mr. Gorbachev will be in town for only a few days, while on a whirlwind promotional tour with his wife, who is introducing her new line of designer jeans throughout the U.S. Mr. Gorbachev's talk, titled "The Russian Woodpecker, Bad Karma, the Vegetarian Personality and Glasnost" should be of great interest to all DXers. This special meeting will be held at the Embarcadero McDonalds, San Francisco, at the corner of Market and Mission Streets. Vodka at 6:00, dinner at 7:00, meeting at 8:00. Jackets, ties, and shoes will be mandatory for this meeting.



Mike Gorbachev

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FROM THE PREZ

Your BOD and I have been standing on our heads to please you all, and just guess what we have in store for you in April! And golly! Isn't the next meeting going to be exciting? Our good buddy Mike Gorbachev will be in town with his delightful XYL, and they will be our guests at the April 1 meeting in Chinatown. Gorby's talk, titled "Russian Vegetables, Glasnost Karma, Bad Personalities and Woodpeckers" should be a real eyeopener. Anticipating a big turnout, I have appointed a committee consisting of WA6AHF, K6TMB, and W6GO. They will in turn appoint a subcommittee to study the matter. The results will be published in an upcoming issue of the *DXer*. When it appears I urge you all to read it carefully, and act according to your convictions. Above all, act!



Ted, KA6W
Pleasing Us All

Did you participate in the ARRL DX Contest on either phone or CW in order to win your NCDXC Commemorative Contest Button? If you did, good on you! If you didn't shame on you! But above all, thanks to everyone!

Vy 73 es GUD DX,

Ted, KA6W

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REPORT FROM FLOYD AND VIRUS

We concluded our CHASM DXpedition to the Islands of Langerhans on March 1, 1988. Because of local regulations, we had to use our own individual call signs while operating: Floyd used 1L6KL and Virus used 1L6QG. We tried to use Floyd's call whenever possible. 1L6QG was used primarily during the times each day that Floyd warmed his milk. We had a total of 6238 QSOs in 118 countries, split nearly equally between the two calls.

We operated on Lesser Langerhans, the smallest of the islands in the Langerhans group. Unfortunately, the path between Lesser Langerhans and the West Coast U.S. was very poor, although most of our friends in California appreciated the extra challenge this presented. We did have an excellent long path opening one morning and were gratified that six California DXers (in Los Angeles) were able to contact us before we had to QSY.

The natives were friendly and seemingly fascinated by ham radio. Several took valuable time off from their important work to help us pitch our tent, haul our water, and share in our simple home-cooked meals.

As is well-known, pasta farming is the principal source of foreign exchange for the Langerhanians. Their tasty pasta, which we sampled extensively, is truly of superior quality - Langerhan spaghetti, in particular, commands premium prices on the world market. We toured several of the larger pasta farms and took many interesting photographs - peasants in their colorful native costumes happily singing as they harvested the bumper crop from neatly trimmed rows of spaghetti trees, acre upon acre of freshly picked cannelloni and ravioli drying in the warm mid-day sun, smiling stevedores loading bales of vintage macaroni onto ships, to be rushed off to eager consumers throughout the world. We were deeply moved by the beauty of the pasta process.

We will return to California in early April, and hope to see you all at the Visalia International DX Convention and later at the Dayton Hamvention. As usual, all QSLs should go to CHASM.

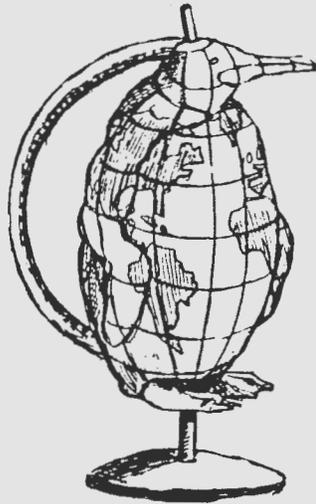
73,	88
Floyd Kelvin	Virus Kelvin

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**NCFDX ANNOUNCES MAJOR FUND RAISING
DRIVE
SUPPORT FOR PETER II DXPEDITION SOUGHT**

The North Chicago Foundation for DX (NCFDX) has just announced a major new fund raising campaign designed to fill the coffers in support of the upcoming Peter II DXpedition (see article above). As a special

incentive for the True Blue to dig deep into their pockets and bank accounts, a special incentive is being offered to the first 100 individuals who come up with a tax-deductible donation of \$1000.00 or more. The special gift will be a genuine hand painted Peter II Commemorative Penguin Globe, as illustrated here. The globe, molded in the shape of an adorable Antarctic Penguin (Spheniscidae Peterii), should fit into the decor of any DXers shack. They are clearly destined to be a classic, a must have for all real DXers.



Peter II Globe
Will One Be Yours?

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PETER II DXPEDITION ANNOUNCED BY NSHDXC

The Northern Schleswig-Holstein DX Club has just been informed that the ARRL will grant new country DXCC status to the Norwegian possession of Peter II Island upon its activation.

Since NSHDXC will be sponsoring the first DXpedition to Peter II Island, our group is working closely with the Norwegian Minister for Overseas Possessions. This Minister was greatly impressed by the financial return and by the international prestige collected from the recent Peter I DXpedition.

The following information was provided by the Norwegian Minister. Government scientists, after intensive research, have relocated Peter II, a Norwegian possession even closer to the South Pole than Peter I. Peter II, a large rock, was discovered by the Steinar Borgen Expedition in 1869, the year of the famous ice-melt which exposed large areas normally inaccessible. Although the rock has not been seen since that year, it was officially named Peter II and claimed by Norway. The exact location of the rock was unfortunately lost when the records of the Steinar Borgen Expedition were destroyed during World War II during the Nazi occupation. Scientists have succeeded recently in pinpointing the rock's exact location through certain magnetic and gravitational anomalies. Once additional studies have been completed, the Norwegian Government intends to provide ice-breaker ships to remove the ice mantle for a radius wide enough to guarantee Peter II's status as a legitimate island in the eyes of the ARRL.

NSHDXC is therefore making all possible advance preparations to sponsor a DXpedition, the moment the location of Peter II is precisely determined. We will greatly appreciate any support your group might provide for our project.

Very 73,

Helmut Greifbar, Secretary
Northern Schleswig-Holstein DX Club
Keuchheitsallee 175
0341 Halberschaft, West Germany

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LETTERS LETTERS LETTERS

dxer editer your honorable sir.

a guy at the massage parlor where i work says i should write to you cause if you cant help me aint nobody in the world who can. a month ago me and my boyfriend busted up and after i run him out of the place here i was looking at some of the radio stuff he left cause he left so fast he couldnt take it all and he sure as heck aint getting back in to colect it cause if he does il bash him.

anyway theirs these funny white cards with red printing on them and all the small letters are the same but the big leters and numbers are different on each of them cards. I looked real close and it said you can send in 50 of them cards and get an award called yasme foundation. i asked the guy where i work what a yasme foundation is and he said he dont know but it sounded kinda kinky so I sent off them 50 cards. i figgered i can always use another foundation cause my boyfriend has told me my hips are speading so i been watching my calorees. i dont hardly drink at all no more except when i have fun and i havent been having much of that. so i got this package in the mail and it had this big yasme thing in it what you can hang on the wall or i guess you can put it on the floor or something it looks like a rowboat. i gess it can be used for hips but foundation it aint unless your planning on getting hurt cause i bet it would scrach like hell if i rub it around.

im really kinda worried cause so far i aint received no bill or nothing and i dint send no money either when i sent off them cards. im kinda scared some goon will be coming around here to collect in person and heel break my arm if i dont pay up. maybe i can just send some dough to that yasme thing and theyll stay off my back. do you think i should do this and how much bread should i send. like maybe a buck and a half?

very yours truly,
betty wunder

The DXer - April 1988

CALL	HONOR ROLL			---DXCC---					====5 BAND DXCC====					
	MIX	PH	CW	MIX	PH	CW	10m	15m	20m	40m	80m			
KF6A				274										
K6AAW	313			326										
AA6AD				271	181	252	109	176	258	54				
W6AED/7				325				100	100					
W6AEO				241										
W6AAHF		312		332			100	100	100	100	100			
KG6AM				242	232	106	75	152	216	25	13			
N6AN	311			330	283	267	211	267	291	157	112			
K6ANP				316	199	211	133	144	199	110	105			
N6AUS				258										
WB9HIP				310	308	72	97	135	173	37	31			
KA6BIM				196	190	59	108	131	141	33	8			
W6BJH	311			327	192	282	120	117	187	117	100			
WA6BSS				277		2	124	155	227	49	14			
W6BSY	315	313		357	351									
KB6BW				251	2		89	89	151	26	2			
K6BWX				225	1	224								
W6CF	315			342	294	185	204	239	306	178	138			
K6CN				260	253	158								
W6CTL				301		190								
WB6CUA				311	265	263	100	100	100	100	78			
WW6D				172	89	147	33	70	136	67	26			
K6DC	315			359										
W6DD					126									
W6DPD				300	300									
K6DR				248										
K6DT	312	307		340	320	293	229	251	328	153	121			
W6DU				323	267	270	195	216	261	125	86			
NQ6E				202		152	106	114	173	111	108			
WD6EKR					275		134	203	235	46	54			
W6ERS	315			345										
W6ETR					237									
WB6EXW				303			100	100	100	50	11			
WW6F				264	260	124	135	133	170	36	33			
W6FAH				241			121	116	230	110	120			
WB6FDQ				225	175	125	110	110	110	110	110			
W6FGD				295	217	245								
K6FO				277	185	239	134	164	235	125	102			
KB6G				253	229									
KG6GF				281			70	120	210	256	124			
WB6GFJ				101	300	70	161	192	246	105	50			
N6GG				301										
W6GO	309			321	320	302	257	284	308	233	199			
K5GOE				285	274		100	100	100	98	79			
AE6H				208	100	100								
WA6HAT				311	243									
K6HHD				301	296	15	193	153	187	31	16			
K6HNZ				290			209	242	254	125	107			
N6HR	308			329	315		100	100	100	100	100			
W6HXW				315										
WC6I				256			133	147	191	126	43			
W1ICU	315			333										
K4II	312			339	303	336	197	243	322	248	162			
W6ISQ	315	312		348	331	207	157	189	219	122	110			
W6JD				309	204	276								
N6JM				278	259	217	164	205	239	104	74			
W6JRY	306			321										
N6JV	310			321	167	300	100	100	100	100	100			
W6JZU	312			328			75	115	255	22	12			
W6KG	314			352	290	108	161	193	210	169	105			
W6KH	316			354										
W6KNH	315	315		336	336									
W6KOE		313		332										
W6KQK				310	295	287	243	278	299	152	118			
K6KQN				265	260									
NB6L				299	191	138	100	81	170	27	2			
WABLLY				107			40	57	102	40	9			
K6LQA	312			330										
W6LQC	313	312		330	330									
WX6M				308	308	21	145	135	167	65	44			
K6MA	316			346	317	264	110	100	100	102	108			
KB6MD				240										
W6MUR	313			351										
W6MZ				324										
W6NA					266		136	180	249	165	92			
WB6NBR					176	9								
W6NKR				289										
W6NLG				300	100	100	100	100	100	26	6			
K6NM				300	200	191	100	135	258	152	34			

CALL	HONOR ROLL			---DXCC---					====5 BAND DXCC====					
	MIX	PH	CW	MIX	PH	CW	10m	15m	20m	40m	80m			
W6NPY				314	200	265	200	200	200	178	139			
KR6O				100		100	100	100	100	100	3			
WA6O				217			88	50	123	2	16			
N6OC				303	300									
WA6OEY				227			71	60	170	20	8			
WB6OIP				305	220	185	152	160	248	85	20			
N6OJ				316	275	105								
K6OJO	312	311		328	327		187	250	309	17	12			
W6OMR	307			330	315									
W6OSP				290										
WB6OTB				238										
WB6OTC				284										
K6OZL				332			100	100	100	100	100			
K6PBT				183	143	63	60	64	109	31	1			
K6PKO				300			270	175	185	92	67			
K6PU	316	311		344	325	250	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										
W6RGG	315	313		340	336									
W6RJ	316			345			100	100	100	100	100			
K6RK	308			321	305	279	100	100	100	100	100			
K6RK	317			354			91	182	285	126	71			
N6RR				289			116	210	176	129	88			
K6RUW				270	242	120	100	100	100					
DJ6GRX	315			336			215	271	303	227	185			
AF6S				303		294	247	261	288	188	123			
K6SIK				243	253		85	137	220	97	87			
N6ST				314	293	228	168	202	277	121	44			
W6SYL						185								
W6TC	312			327		306	100	100	100	100	100			
W6TER				269										
WA6TKT				249	160	140	100	100	100	100				
K6TMB				291	283	195	175	195	275	120	112			
WA6TOO				251			58	84	167	6	6			
W6TPH				272	238	187	141	181	172	110	100			
W6TSQ				346			271	300	300	292	247			
AE6U				304		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				300	213	250	134	158	242	128	62			
W6VQD				320	319	1	134	157	282	104	106			
KD6VS				304										
K6WD	309			321		263	100	100	100	100	65			
WB6WKM				292	100	100	100	100	100	95	59			
KE6WL				204	189	130	74	148	169	62	18			
K6WR	317	317		348	348		100	100	100	100	100			
KH6WT						204								
KK6X				281	227									

Alpha Delta Model DELTA-4

Lightning Surge Protected
4-Position RF Coax Switch

- Exclusive center "off" (ground) position.
- Uses ceramic Arc-Plug® protector.
- Micro-strip circuitry—no wafer switch.



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