

The Northern California DX Club, Inc.

The DXer

June 1981

Volume XXXV

Number 6

MEETING MAXIMUS -- THE JUNE GATHERING

featuring

ELECTIONS -- IC2A RAFFLE -- LOGO CONTEST -- KNIGHTS OF THE CARIBBEAN

PLACE: HARRY'S HOFBRAU, at the Palo Alto Airport/Golf Course
DATE: Friday, 12 June 1981
TIME: Cocktails --- 6:30 P.M. 7:30 P.M. --- Dinner Time
MENU: Cafeteria style dinner plates: roast beef, roast turkey, pastrami, corned beef, baked ham.
PROGRAM: DXPEDITION TO THE CARIBBEAN by N7KA Arne Gjerner and N6ST Steve Thomas.

SUPER RAFFLE - IC2A & AEA KEYER FROM HRO

As an added attraction, we have a super raffle coming up at the June meeting -- an IC2A HT 2 meter rig and an AEA Model CK1 contest keyer courtesy of HAM RADIO OUTLET who also supplied the grand prize TS-830S and an IC2A at the DX convention in Visalia.

ELECTIONS

The most important business of the year is upon us -- the election of the officers for the coming year. The direction and activities of our club for the next 12 months will depend on how well we select the helmsmen (or is it helmspersons in this day and age?) and how willing the members are to serve in these positions. There is a time for DXing, a time for QSLing, and a time to QRT, but NOW is the time to consider returning something to the club -- service as an officer. If you know of members who have the necessary qualifications and administrative ability, by all means discuss and encourage them to consider running in the election -- nominations from the floor will be solicited.

Candidates from the nominating committee consisting of Chairman Gene Spinelli - WD6DLK and his able assistants Hal Godfrey N6AN and Jay O'Brien W6GO offer the following candidates for your consideration:

President:	K6DC Merle Parten;	N6RC Dick Crouch;	W6TPH Bill Zachman
Vice President:	N6ST Steve Thomas	K6TXR William Vette	
Secretary:	W6VG Ron Panton	K6ZX Douglas Beck	
Treasurer:	K6RK Chuck Patterson	KG6S Terry Wilkin	

LOGO COMPETITION

The logo contest submissions are in and samples of these will be passed around at the June meeting for consideration and voting. Since you may want to wear this on your jacket some day, be sure and attend and vote for your preference.

DUES ARE DUE -- JULY 1

A tank of gas is \$20, a magazine subscription is easily \$18 to \$25, a good dinner for two can run \$30, BUT CLUB DUES ARE ONLY \$12.50 FOR FULL MEMBERS AND \$6.25 FOR ASSOCIATES AND ABSENTEE MEMBERS. Should we pay up promptly, the treasurer can get on a DX list instead of making up one of unpaid members. So bring your checkbook to the meeting or mail post haste to:

WD6DLK Gene Spinelli
36745 Peach Court
Newark, CA 94560

or

NCDXC
P. O. Box 608
Menlo Park, CA 94025

AD CAMPAIGN

Soon we will be soliciting ham radio merchants to advertise in the DXer to help defray the cost of printing and mailing the DXer. Hopefully we have included all members of the club who fit into this category and they will be receiving a letter to this effect shortly. If we have missed any club member who has a business involved with ham radio and who would like to inquire as to the details, contact the Editor immediately. Space is limited.

NCDXC PICNIC -- LAST OF SEPTEMBER

THE PICNIC will be held sometime between the 15th and 30th of September. W6NLG Gordon is the chairperson and would appreciate early volunteers to assist in planning. Suggestions for location, themes, chow, etc. will be gratefully accepted.

N6RO OPEN HOUSE

In the last DXer, the open house date was copied under one by one conditions and came up in error. Ken is holding open house SATURDAY JUNE 6th, in Oakley. Take Highway 580 past Livermore and head for Vasco and Sellers Roads.

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Don Busick - K5AAD
Owner

Texas residents only - add sales tax

PUZZLE WINNER) MAY -- K6XT

Puzzle winner for May is Author Charette in San Diego. Submissions this month totaled 5. All were correct and K6XT won by the draw. Only 2 IRC's showed up and we may have the club supply the IRC prizes in the future or discontinue giving a prize. See the last page of this issue for May puzzle solution.

DEADLINE FOR JULY DXer - JUNE 26TH

Running the DXer by copier requires a little more lead time, so try to have the inputs to the editor by the 26th of June. Also, don't despair if your article isn't published immediately; we are trying to build up a backlog of articles to select from.

DX PERSONALITIES

A currently popular inter-personal relations management course teaches that personalities may be categorized into four major divisions: Drivers, Expressives, Amiables, and Analytcs. Here is how DX'ers fit into all this:

- DRIVER: Uses stacked linears, stacked microphones, and stacked beams as necessary to break the pileup. After breaking the pileup, he takes charge and becomes a list master.
- AMIABLE: Joins the pileup merely to keep from being lonely. When his turn comes up in a list operation, gives it to his buddy.
- EXPRESSIVE: Calls CQ for the "strongest BY station only" using stereo mikes and an echo-verb. When he breaks a pileup, sells his 25 year old gear to the DX station.
- ANALYTIC: Works DX only after calling Don Search to be sure the papers are in. Also runs reams of data through his computer in an effort to determine when the optimum time is to call. Typically misses out and makes his call after the DX station goes QRT or leaves the island.

- AC6V

HEARD ON THE REPEATER

- GUN A: They say today's solar flare is so huge it will wipe out frequencies down to 60 Hertz.
- GUN B: (rringgg) It may have done more than that, my HT batteries just went dead.

* * * * *

- DXPEDITIONER: QRZ'd fours, fourth call area only DX1DX.
- SHOUTING LID: WB5XY\$
- DXPEDITIONER: WB4XY\$ ur 5 by 9
- LID: Roger the 59 ur also 59, but my call is WB5 5 5 1 2 3 4 5
- DXPEDITIONER: Got u WB4XY\$ QRZED 4's.

- Ideas by WB6WKM

MARATHON TIME AGAIN

Beginning June 1 at 0000 UTC and ending August 31 at 2359 UTC, is the annual Northern California DX Club Marathon DX Contest. My apologies for not having this in the May issue, but you have plenty of time to catch up, if this is the first notice you have.

The contest categories are PHONE, CW and MIXED mode. Members may submit for one category only. To qualify for MIXED mode, the entrant must work at least 25% of the countries on either phone or cw. A country may only be counted once, regardless of the band.

Contest logs will be submitted to the contest chairman before October 1st.

Contest logs shall include the following information:

1. Consecutive numbering of countries worked.
2. Call sign of station worked.
3. Date and time (UTC).
4. Band and mode.
5. Name of country.

A duplicate sheet must accompany the entry. The ARRL Countries List is recommended for this purpose.

Complete details will be found in the NCDXC Procedures Manual, Section 7-101 on page 36.

* * * 22nd ANNUAL ALL ASIAN DX CONTEST * * *

Contest period--Phone: 0000 UTC June 20, 1981 to 2400 UTC June 21, 1981. CW: 0000 UTC August 22, 1981 to 2400 UTC August 23, 1981. There are eight entry classifications: single operator, single band--160 thru 10 (exception, CW only on 160); single operator, multi-band; and multi operator, multi band. Exchange: RS(T) report plus two figures denoting the operators age--YL stations: RS(T) report plus "00".

Club member N6RO was top scorer for North America in 1979 and 1980 in the single operator, multi band classification, congratulations Ken. Scotty, AE6U was top scorer for North America for 160 meters in 1980; club members N6AN, K6RU, W6SZN and K6XT also participated in the 1980 test.

* * * * *

NCDXC SCORES FOR THE 1981 ARRL INTERNATIONAL DX COMPETITION:

CW: 13,952,676 PHONE: 18,256,782 TOTAL: 32,209,458

Jan, K6HHD - Contest Chairman

MINUTES MEETING NCDXC

May 15, 1981

The meeting of May 15, 1981 was primarily dedicated to the Charter Members of the NCDXC, and we were very pleased to have all but Elvin Feige, W6TT present. Excepting, of course, the silent keys, W6UPV, W6TI, W6PB. Present were W6EJA, Charlie Henry, brought in a wheel chair by Louese and Larry Bloom, W6AED Bud Walton and XYL Gussie, all the way from Sandpoint, Idaho. W6BUY, Jack Holmes and XYL Kay from Tiburon, W6DUB Mario Chirone and XYL Thelma, W6IKQ Phil Caldera and XYL Dorothy, W6ITH Reg Tibbetts and secretary Janet Ballard, and W6QLH Bud Downey. Guests present included W6FSJ, WD6FDQ, K6TMV, GU4EON, GJ2LU and XYL, W6HUA.

First readings for membership were given to WB6FDQ, W6FSJ, K6TMB, W6HUA. Second readings were given to NA6F Don Coelho, WB6NBR Ron Pipes, AG6D Al Elge, KK6X Jim Hicks, and KA6CQQ Tom Carney. Welcome to all five and congratulations on membership to the first and greatest DX club in the world. As we say in Scotland, Lang may your lum reek.

A very interesting presentation of slides and chatter was given by Hiller Raamat, N6HR on Kwaj, KX6 land. Our Chairman of the California Award presented Hiller with award #347 for operation at KX6BU. In 1965, Hiller received award #74. Congratulations Hil, and keep Phil Frazier K6ZM busy with more active DXpeditions.

President Bruno AA6AD formally presented Certificates of Merit of the NCDXC for outstanding service to NCDXC to W6RGG Bob Vallio for his dedicated work with club station W6TI. K6RK Chuck Patterson for his work keeping up the DX Ladder for the DXer. K6ZM Phil Frazier for his labor of love, the California Award. N6AUS Dave Hillman for the outstanding job with the computer roster, mailing list, needed countries list, and roster up-dating. W6ZYC Charlie Kump, WB6OOL Pete Grabosky, N6NK Rod Deakin for making WR6ACZ possible. The installation and maintenance has been mainly through their efforts. I recall K6DC making trips up the hill also through the years. K6SSJ Bob Thompson for his outstanding job on the International DX Convention. W6SC Howard Hale for his handling of the NCDXC Club QSL cards which may be procured from Howard. His Santa Claus operation at the December Christmas meeting is superb. Certificates were also sent to WB6RIU Andy Gudas former DXer editor for a very much appreciated job, and to his assistant WB6DVX Joe Turek. The appreciation of the whole club goes to all the above dedicated members for their fine work. Let's have a longer list next time.

The DX International Convention in Visalia was a smashing success. We all sincerely thank Bob Thompson for a gargantuan job. We must start planning now for 1983. Thanks also to all committee volunteers and the donors of prizes and open house and cocktail hours.

It was noted that the June 12th meeting will be election night for new officers. This is your opportunity to do something if you have gripes about the present administration. Get elected, or at least volunteer to run, and run the club the way you think it should be run. Run, run, run!

I forgot to mention that the meeting was held at Art's Restaurant on Broadway in Oakland. We expected a small turnout because the meeting date was so close to the DX Convention in Visalia. Forty members and guests were guaranteed to Art, and over 74 showed up. Sorry about the tight squeeze, but DXers are unpredictable of course. Hope you enjoyed the meeting.

Respectfully submitted,

Ron Panton, W6VG, Secretary NCDXC

NCDXC BOARD OF DIRECTORS MEETING

May 18, 1981

Meeting was held at the home of W6VG and present were AA6AD president Bruno Bienenfeld, WD6DLK treasurer Gene Spinelli, Ted Davis W6BJH, Hal Godfrey N6AN, and W6VG Ron Panton secretary. Meeting got under way at 742 PM local Menlo Park time.

Our guest was Ken Ruddick of the NCCC who asked for the support of the NCDXC in the all-out effort the NCCC is making this year (1981) in the CQ WW contest. In exchange, the NCCC will throw their efforts towards our total score in the 1982 in the ARRL CW and Fone DX contest. The NCDXC board urges all NCDXC members who hold dual membership to help to the best of their capabilities. Any contest oriented NCDXC members are also urged to join the NCCC.

Rod Dinkins AC6V, our esteemed DXer editor, would like to promote more advertising for the DXer. This would make the DXer almost cost free to the NCDXC. The board agrees with Rod's ideas. Our picnic this year will be held sometime during the period 15 - 30 September.

Visalia 1981 discussed, with both problem areas and successful areas looked at. We would like to start early on the promotion of the 1983 convention so - plans are under way.

A motion by WD6DLK was made that the NCDXC offer to donate QSL cards to N6ST and N7KA for their West Indies DXpedition, if the NCDXC gets mentioned on the cards. We hope we will have a club logo for this purpose very soon. The board approved a motion that the NCDXC will donate up to \$200 towards cost of printing DXpedition QSL cards for NCDXC members in good standing who go on DXpeditions. NCDXC must have full discretion on the type, design and quality of cards. There must be credit to NCDXC printed on cards, with logo. Prior approval from the board of directors must be obtained before the commencement of the DXpedition. No postage or envelope costs will be defrayed by the NCDXC.

A motion by W6VG to print an interim roster was not approved. The next roster will be printed later in the year per the Procedures Manual. Up-dates will be published in the DXer. N6AN proposed we make up a list of club members and their names similar to the list made up by SCDXC for their members. It was pointed out that W6NLG and W6VG are in the process now of preparing such a list. One side will have the SCDXC and the other side the NCDXC.

The NCDXC club marathon DX contest will start June 1, 1981. All members are urged to participate and please help push the California Award. Phil Frazier K6ZM has too much spare time and is looking forward to receiving more applications for the award.

Respectfully submitted,

Ron Panton, W6VG
Secretary, NCDXC

INTERNATIONAL DX CONVENTION 81
DX QUIZ

INSTRUCTIONS

Good luck with this DX quiz! This quiz will test your knowledge of current DX operations. The quiz is based upon information printed in the DX bulletins, information printed on the QSL cards from the DX operations mentioned, and from other sources. If you have really been active the last two plus years, you will be prepared to win this quiz!

A list of DXers and a list of DX operations are on the other side of this paper. Each DXer is assigned a number. All you have to do is associate the DXer's number with the appropriate DX operation and write the DXer's number in the answer block for the DX operation. For instance, the SM0CCM/NS6 operation reported in the DX bulletins was from the QTH of KB6YU. Therefore, KB6YU, who is DX'er number 35, is associated with SM0CCM/NS6. This "free" answer is written in for you.

A correct answer may be a blank, just as some DX'ers may be associated with more than one operation. There may also be some DX'ers just thrown in for good measure who aren't associated with any of the operations in this quiz. The "association" of the DXer could be (but is not limited to) operators, managers, persons present at a DXpedition, etc.

When you are finished with the associations, answer the tiebreakers. The tiebreakers will not be scored except to break ties between the top scorers in the association quiz. The answers to the tiebreakers must be on the back of this sheet! Answers on this side of the sheet will not be accepted.

TIEBREAKERS

1. What is BV2A/B's 21Mhz transmitting antenna?
2. On September 16, 1980, two DXpeditions were on 21Mhz CW at the same time, with a common pile-up. Name one station.
3. Name the other station (see tiebreaker no.2).
4. What is the beam heading in degrees/minutes from Visalia (33° 20' N, 119° 19' W) to the Leonardo de Vinci airport in Rome (41° 49' N, 12° 15' E)? (Short path)
5. What is the beam heading in degrees/minutes from the Leonardo de Vinci airport to Visalia? (Short path)

DON'T FORGET THIS PART

Your call _____ Your name _____

Your address _____

ZIP _____

Jay and Jan O'Brien, W6GO and K6HHD 5/81

DXers:

1. CT1ADP
2. D4CBS
3. DF2RG
4. DJ2BW
5. DJ6SI
6. DK2OC
7. DK5XN
8. DK7XN
9. DL2GG
10. EA3XO
11. F00L
12. G4CTQ
13. HK0BKX
14. I0DUD
15. I0MGM
16. I2FGP
17. I2YDX
18. IS0LYN
19. JA1BK
20. JA2KLT
21. JA3AEV
22. JA3KWJ
23. JF1IST
24. JY9OD
25. K2HFX
26. K2KA
27. K3ZO
28. K4QX
29. K4SMX
30. K5MM
31. K5VT
32. KALBQ
33. KB4IT
34. KB5FU
35. KB6YU
36. KG6SW
37. KP2A
38. KP4KK
39. N4XR
40. N6DX
41. N6NI
42. N6TJ
43. N6ZV
44. N7ZR
45. OH2BH
46. OH5XL
47. ON6BC
48. P29JS
49. SM0AGD
50. VE2AQS
51. VK3OT
52. VK6AGM
53. VR3AR
54. W0WP
55. W4MGN
56. W6KG/W6QL
57. W6RJ
58. W7EJ
59. WA6AHF
60. WB4MNF
61. WB6GFJ
62. WB6RFI
63. WB8ABN
64. WB9TTM
65. WN4FVU
66. XELOW
67. ZL1ALE
68. Z' O

OPERATIONS:

- | | | |
|---------------------------------|------------------------------------|--|
| <input type="checkbox"/> 1A0KM | <input type="checkbox"/> CR9B | <input type="checkbox"/> OJ0MA |
| <input type="checkbox"/> 1S1DX | <input type="checkbox"/> CT3BZ | <input type="checkbox"/> PY0ZDX |
| <input type="checkbox"/> 3C0AB | <input type="checkbox"/> D68GA | <input type="checkbox"/> S9CBS |
| <input type="checkbox"/> 3C1AA | <input type="checkbox"/> DJ1US/ST3 | <input checked="" type="checkbox"/> SM0CCM/NS6 |
| <input type="checkbox"/> 3D2DB | <input type="checkbox"/> EP2TY | <input type="checkbox"/> ST2FF/ST0 |
| <input type="checkbox"/> 3VBAA | <input type="checkbox"/> FG0FOK | <input type="checkbox"/> T2AAE |
| <input type="checkbox"/> 4B4MDX | <input type="checkbox"/> FH0DZ | <input type="checkbox"/> T2T |
| <input type="checkbox"/> 5H3KS | <input type="checkbox"/> FH0FLP | <input type="checkbox"/> T3LA |
| <input type="checkbox"/> 5N0DOG | <input type="checkbox"/> FO0FB | <input type="checkbox"/> TL0BQ |
| <input type="checkbox"/> 5N0SID | <input type="checkbox"/> FO0KW | <input type="checkbox"/> TN8AJ |
| <input type="checkbox"/> 5T5JA | <input type="checkbox"/> FO8FI | <input type="checkbox"/> TU4AR |
| <input type="checkbox"/> 5U7BE | <input type="checkbox"/> FR0ACC/G | <input type="checkbox"/> TZ4AQS |
| <input type="checkbox"/> 5V7HL | <input type="checkbox"/> FR0DZ/J | <input type="checkbox"/> VE1CR/1 |
| <input type="checkbox"/> 5W1BT | <input type="checkbox"/> FR7BP/T | <input type="checkbox"/> VK9NS |
| <input type="checkbox"/> 5Z4YV | <input type="checkbox"/> FW0XN | <input type="checkbox"/> VK9XT |
| <input type="checkbox"/> 600DX | <input type="checkbox"/> GU5CIA | <input type="checkbox"/> VK9ZG |
| <input type="checkbox"/> 6T1YP | <input type="checkbox"/> HC8EE | <input type="checkbox"/> VR6HI |
| <input type="checkbox"/> 7J1 | <input type="checkbox"/> HH2VP | <input type="checkbox"/> WA2FIJ/KH5K |
| <input type="checkbox"/> 8P6J | <input type="checkbox"/> HK0AA | <input type="checkbox"/> XW8 |
| <input type="checkbox"/> 8Q7AP | <input type="checkbox"/> HK0AB | <input type="checkbox"/> YJ8OT |
| <input type="checkbox"/> 8Q7AR | <input type="checkbox"/> HS1ABD | <input type="checkbox"/> YV0AA |
| <input type="checkbox"/> 8Q7AW | <input type="checkbox"/> HV3SJ | <input type="checkbox"/> ZK1AM |
| <input type="checkbox"/> 8Z4A | <input type="checkbox"/> J3ABV | <input type="checkbox"/> ZK1MB |
| <input type="checkbox"/> 9M6MU | <input type="checkbox"/> J5AG | <input type="checkbox"/> ZK2EA |
| <input type="checkbox"/> 9Q5VT | <input type="checkbox"/> J6LOO | <input type="checkbox"/> ZK2YL |
| <input type="checkbox"/> 9Q5WH | <input type="checkbox"/> J7DBB | <input type="checkbox"/> ZM7AA |
| <input type="checkbox"/> 9U5AV | <input type="checkbox"/> K6LPL/KH5 | |
| <input type="checkbox"/> 9X5LE | <input type="checkbox"/> KC6ZR | |
| <input type="checkbox"/> A22GD | <input type="checkbox"/> KH0AC | |
| <input type="checkbox"/> A35DX | <input type="checkbox"/> KP4AM/D | |
| <input type="checkbox"/> A35YL | <input type="checkbox"/> OA4AWD | |
| <input type="checkbox"/> AP1RIL | <input type="checkbox"/> OE6XG/A | |
| <input type="checkbox"/> C21AA | <input type="checkbox"/> OH0DX | |
| <input type="checkbox"/> CR9AJ | <input type="checkbox"/> OH2AP/OJ0 | |

TIEBREAKERS
(see over)

	1
	2
	3
	4
	5

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DX NEWS

Wake Island

There is a very good possibility for a Wake Island all band operation from June 12th to June 16th. K6XT Art and KT6V Tom plan to operate 80% CW, transmitting 20 kHz up from the band edges, listening up the usual 5 kHz. Special emphasis will be placed on 40, 80, and 160 meters. QSL to home calls, KT6V's old call was W7KHN.

Bouvet Rumors

Reports have been heard that VKØVR is trying for an 80 thru 10 meter operation, CW and sideband. No dates given.

Bangladesh

Listen for S2BTF on about the 2nd of June through the 12th of June, 80 thru 10 meters, CW and SSB.

Spratly

JA6CKX is trying for a Spratly operation in early June.

Desecheo

DXpedition likely to occur 8 to 15 June, all band 6 thru 160 meters. QSL to AF2C.

Tokelaus

Jim Smith is trying to get to the islands operating as ZM7JS. Target date is early June.

Tristan Da Cunha

ZD7 operators are pushing hard for this one to occur in June.

Sri Lanka

Look for DJ1US operating as 4S7US on all bands, CW up 40 kHz from the band edges. DF2RG is the QSL manager.

Sao Tome

Rumors that K5VT is trying for S9 land in the near future.

- Summary of W6LQC's Net DX News

HEARD ON THE REPEATER

Ragchewer A: I understand in some countries hams don't have to take a code test.

Ragchewer B (a well-known confirmed phone man): Yeah some of those guys don't even know that DAH-DIT means "A".

- Inx to AA6XI

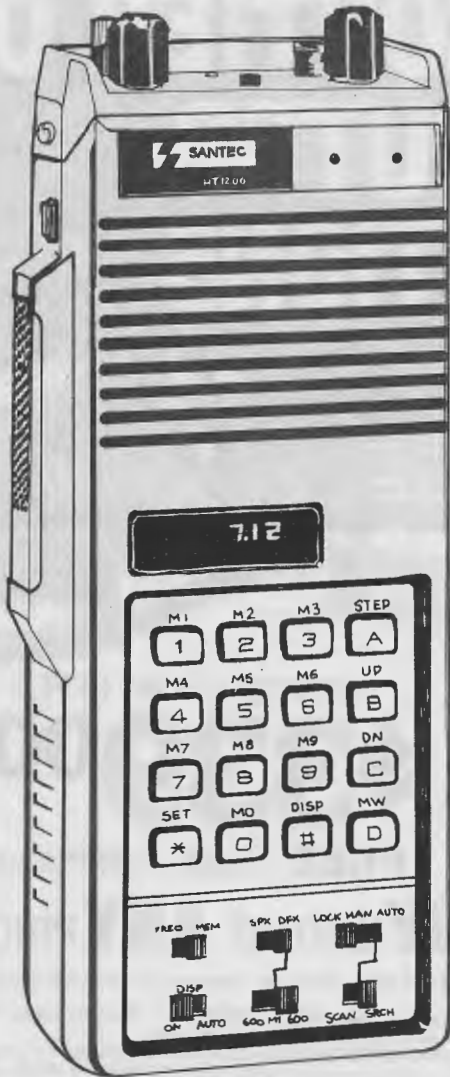
QRZ ELEVENS

A tired DXpeditioner on a rare isle figuring he could QRX the pileup and get a laugh all at the same time.

DXer: QRZ the eleventh call area only.

Distant weak station: This is Y11DX over!!!

- Ideas by WB6WKM, AF6S and others



We Have The Santec HT-1200!

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(408) 998-1103

1378 S. BASCOM AVE. SAN JOSE, CALIF.

New! AZDEN® PCS 3000 BLAZING THE FRONTIER OF MICROCOMPUTER COMMUNICATIONS



**SUPERIOR
COMMERCIAL GRADE
2-METER FM TRANSCEIVER**

INTRODUCTORY OFFER
\$339⁰⁰

FREE TOUCH-TONE® PAD KIT INCLUDED.

COMPARE THESE FEATURES WITH **ANY** UNIT AT **ANY** PRICE

- **8 MHZ FREQUENCY COVERAGE, INCLUDING CAP/MARS BUILT IN:** Receive and transmit 142.000 to 149.995 MHz in selectable steps of 5 or 10 kHz. **COMPARE!**
- **SIZE:** Unbelievable! Only 6³/₄" by 2¹/₈" by 9³/₄" **COMPARE!**
- **MICROCOMPUTER CONTROL:** All frequency control is carried out by a microcomputer.
- **MUSICAL TONE ACCOMPANIES KEYBOARD ENTRIES:** When a key is pressed, a brief musical tone indicates positive entry into the microcomputer. **COMPARE!**
- **PUSHBUTTON FREQUENCY CONTROL FROM MICROPHONE OR PANEL:** Frequency is selected by buttons on the front panel or microphone.
- **8 CHANNEL MEMORY:** Each memory channel is reprogrammable and stores the frequency and offset. Memory is backed up by a NICAD battery when power is removed.
- **INSTANT MEMORY 1 RECALL:** By pressing a button on the microphone or front panel, memory channel 1 may be accessed immediately.
- **MEMORY SCAN:** Memory channels may be continuously scanned for quick location of a busy or vacant frequency.
- **PROGRAMMABLE BAND SCAN:** Any section of the band may be scanned in steps of 5 or 10 kHz. Scan limits are easily reprogrammed.
- **DISCRIMINATOR SCAN CONTROL (AZDEN EXCLUSIVE PATENT):** The scanner stops by sensing the channel center, so the unit always lands on the correct frequency. **COMPARE** this with other units that claim to scan in 5-kHz steps!
- **THREE SCAN MODES WITH AUTO RESUME:** "Sampling" mode pauses at busy channels, then resumes. "Busy" mode stops at a busy channel, then resumes shortly after frequency clears. "Vacant" mode stops at a vacant channel and resumes when signal appears. If desired, auto resume may be prevented by pressing one button. **COMPARE!**
- **REMOVABLE HEAD:** The control head may be located as much as 15 feet away from the main unit using the optional connecting cable. **COMPARE!**

- **PL TONE OSCILLATOR BUILT IN:** Frequency is adjustable to access PL repeaters.
- **MICROPHONE VOLUME/FREQ. CONTROL:** Both functions may be adjusted from either the microphone or front panel.
- **NON-STANDARD OFFSETS:** Three accessory offsets can be obtained for CAP/MARS or unusual repeater splits. CAP and Air Force MARS splits are **BUILT IN!** **COMPARE!**
- **25 WATTS OUTPUT:** Also 5 watts low power to conserve batteries in portable use.
- **GREEN FREQUENCY DISPLAY:** Frequency numerals are green LEDs for superior visibility.
- **RECEIVER OFFSET:** A channel lock switch allows monitoring of the repeater input frequency. **COMPARE!**
- **SUPERIOR RECEIVER:** Sensitivity is better than 0.28 μ V for 20-dB quieting and 0.19 μ V for 12-dB SINAD. The squelch sensitivity is superb, requiring less than 0.1 μ V to open. The receiver audio circuits are designed for maximum intelligibility and fidelity. **COMPARE!**
- **ILLUMINATED KEYBOARD:** Keyboard backlighting allows it to be seen at night.
- **TRUE FM, NOT PHASE MODULATION:** Transmitted audio quality is optimized by the same high standard of design and construction as is found in the receiver. The microphone amplifier and compression circuits offer intelligibility second to none.
- **OTHER FEATURES:** Dynamic microphone, built-in speaker, mobile mounting bracket, external remote speaker jack (head and radio) and much, much more. All cords, plugs, fuses, microphone hanger etc. included. Weight: 6 lbs.
- **ACCESSORIES:** CS-ECK 15-foot remote cable ... \$35.00. CS-6R 6-amp ac power supply ... \$59.95. CS-AS remote speaker ... \$18.00. CS-TTK touch-tone® microphone kit (wired and tested) ... \$39.95.

All the words listed below appear in the puzzle - horizontally, vertically, diagonally, even backwards. Find them and circle their letters.

A N E F Q P T D I O N O S P H E R E Y C G A G O P
 T E Q O T X S R E T E M O W T A B P V P A Q D T J
 O U R R E N A C V T S S M B N C O W C R E S S D A
 S Y N O P J X D W E S W E E P S T A K E S T Z I L
 R Z P A D D L E G X T M B V W D F L V D B M C G L
 A B L U F H A T O R N B P C A W K C D E R D S I O
 T S E T N O C F A T S R O U Q M I E G Q E F Y T R
 D A F C B A O N Y S E I A X C N R I T H U S P A R
 K E C A Q P S B E W L D V T F R E Q U E N C Y L O
 L F L B D I C K F I D E H C D Y A G I N E V O C N
 B U H J S F P W L D Z X M S N R D R A C L S Q O O
 N U S T N P I R E Y E K G V F O G Q M R L S P M H
 O V O L K I H V N W H O N E E D S I T U X V L Y V
 L R E H S F O L E K I L O W A T T I S H T G R P I
 G B T S T R G M N B N F P A E C O N V E R T E R W
 L N G C O A X F C I A O N S C W O P E R A T O R C
 O R E T A E P E R L J N K S F M L J B K P L M O D
 G H A C J I B J L D H T D L L D O F I L T E R N V
 O A N T E N N A K H N G O D Y O A J C E S I O N C
 S Y F T P O W E R E M F P I X V P W P R E A M P S
 T S E H A N D H E L D S G R U C T E B F Y N B R E
 M P K R O T A L U D O M I L K M C N R O L C R T O

1. agc
2. antenna
3. balun
4. coax
5. coil
6. contest
7. converter
8. cw operator
9. digital
10. filter
11. five band dxcc
12. frequency
13. handheld
14. honorroll
15. ionosphere
16. keyer
17. kilowatt
18. paddle
19. power
20. preamp
21. modulator
22. noise
23. qrm
24. qrp
25. qsl card
26. repeater
27. sloper
28. ssb
29. sstv
30. sweepstakes
31. transistor
32. two meters
33. vfo
34. was
35. who needs it
36. yagi

To be used during low sunspot activity and by
 xyls during DX contests.

SOLUTION TO MAY 1981 PUZZLE:

- WORDS: 1. List 2. QSL 3. Doublet 4. Filament 5. Attenuator
 6. Pirate 7. Dynatron 8. Conductance 9. Radiator
 10. Heterodyne 11. Offset 12. Kingdom 13. Shaka
 14. Shrug

MESSAGE: A stacked quad is a shapely array designed to attract attention from
 the four corners of the globe.

NORTHERN CALIFORNIA DX CLUB INC., P.O. Box 608, Menlo Park, CA 94025

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NCDXC REPEATER: WR6ACZ

TRUSTEE: Charlie Kump W6ZYC
Input Frequency: 147.96 MHz
Output Frequency: 147.36 MHz
Suggested Simplex: 147.54 MHz

NCDXC THURSDAY NIGHT NET

On WR6ACZ Thursdays at 8:00 P.M.

NET CONTROL: Dave Barton AF6S
DX NEWS: Phil Garrahan W6LQC
WEST LINK: Jay O'Brien W6GO
ARRL NEWS: Robert Smithwick W6JZU
CONTEST NEWS: Jan O'Brien K6HHD
SWAP SHOP: Dick Letrich WB6WKM
QSL INFORMATION: Jay O'Brien W6GO

NCDXC DX BULLETIN BROADCASTS

W6TI, the NCDXC Memorial Station broadcasts DX bulletins each Sunday at 1800 GMT or Monday at 0200 GMT on 14.002 MHz.

W6TI TRUSTEE: Bob Vallio W6RGG

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