

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. ARNS
50.125, 144.150, 432.110, 1296.025 Mhz, WR3ACD - Repeater 222.98/224.58 Mhz

Affiliated Club: AMERICAN RADIO RELAY LEAGUE

Meetings: Third Thursday of each month at 8:00 P.M.

Southampton Free Library, 947 E. Street Road

Southampton, Pennsylvania 18966

SCANNED TO PDF BY BERT, K3IOV, 2012

VOLUME XXII

FEBRUARY 1980

NUMBER 2

THE PREZ SEZ

I am writing this the day before the Contest wrap-up session, where we will all get the first indication of the club score for the January Sweepstakes. There is a lot of speculation about the total score - activity was up; conditions were down. But the total club effort was, once again, the best ever. Everyone was in there trying his best, big guns, little guns, newcomers and old-timers. Whatever the outcome - we know we gave it our best shot. I suspect quite a few club members qualified for the 25% improvement award. Congratulations to them and to all who got on and gave it an honest try! Also, congratulations to Phil, WA3NUF, for managing to simultaneously improve his score 25% and win the Crying Towel Award - an incredible feat to be sure!

Looking ahead, don't forget Homebrew Nite in February. This meeting is one of the seasons most interesting and informative. Patch together some of those projects that blew up in January and bring them to the February meeting. Let's show the world that homebrewing is not dead! Also, make a note - the April meeting will be on Thursday April 24th and will be our ARRL night usually held in May. Guest speaker from ARRL will be Dave Summer, K1ZZ with a presentation on WARC - how the Conference works and what it was like to be there leading the U.S. Contingent from the League. Guest visitor (and reason for the date change) will be Dr. Dain Evans, G3RPE, editor of the RSGB VHF Manual. He is anxious to meet some U.S. VHF hams and he certainly will get a dose of them at a Pack Rat meeting! Dr. Evans will probably give a short presentation but the informal question and answer session following should be extremely interesting. Invite your friends and be sure to attend this meeting - it should be one of the year's best.

As we move into 1980 (and the next decade for that matter), I look for continued club growth and enthusiasm. New technology and at least one new UHF band coupled with the hard work and dedication of almost 100 crazy VHFer's make the future look unbelievably good. Spread the word! (And see you at the February meeting, right?)

73, Bill, W3HQT

* * *

IN MEMORIAM

HERMAN H. KLEIN, K3G0Z
AUGUST 16, 1904 - JANUARY 3, 1980
WE WILL MISS THIS KINDLY MAN
MAY HIS SOUL REST IN PEACE

Pack Rats CHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC. Philadelphia, Pa. and is published monthly.

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SWAP SHOP ITEMS - no charge.

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

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609-783-9478

CLUB HISTORIAN:

W3CL, Harry B. Stein

OFFICERS: 1979-1980

PRESIDENT: W3HQT, Bill Olson
VICE-PRES: W3IIT, Harry Brown
COR. SECY: WB3HHO, Paul Randolph
REC. SECY: K3IGX, Dick Boyle
TREASURER: K3GAS, Doc Cutler

DIRECTORS:

W3HMU, Tony Souza (Ex-Officio)
N3AHL, Jim Holt (2 years)
WA3NFV, Dan Mitten (2 years)
WA3JUF, Dave Mascaro (1 year)
WA3WAS, Steve Simon (1 year)

* * *

MONDAY NIGHT NETS:

7:30 PM - 144.2 Mhz AM/FM/SSB
8:30 PM - 50.2 Mhz AM/SSB
9:00 PM - 222.98/224.58 Mhz FM
9:15 PM - 1296.3 Mhz CW
9:30 PM - 432.1 Mhz CW/SSB

NET CONTROL

W2EIF
W3CL
K3GAS
W2EIF
K3IUW

PACK RAT REPEATER - WR3ACD - 222.98/224.58
Churchville, Pa.

1-302-478-2757

AMATEUR
and
ADVANCED
COMMUNICATIONS

"Gisele"
K3WAJ

G. B. WALLS

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UPPER DARBY, PA. 19082

MAKE A GOOD MARRIAGE GREAT!



ASK US ABOUT OUR WEEKEND.

TONY AND JAN DOUG AND WENDY
W3HMU WB3KES
HARRY AND ROSE DAN AND LUCY
W3IIT WA3NFV

CALENDAR OF COMING EVENTS

Syllabus by Lee, K3MXX

FEBRUARY

According to the Farmers Almanac - you should have half your hay and half your wood left....

- 2 Ground Hog Day - if he sees his shadow - we are in trouble - better hope for a cloudy day
- 9 US Weather Bureau Established 1870 - what private enterprise could be wrong so often and still be a growing and going concern...
- 12 Lincoln's Birthday
- 14 Board of Directors Meeting - QTH, K3GAS, Doc Cutler, 7815 New Second Street, Elkins Park, Pa. If lost call ME 5-1078. Directors and interested parties always invited.
- 14 Valentines Day - need we say more, with the Contest only 3 weeks behind us. Sending Valentines from Cupid's homeland and hometown. Loveland, Colorado. Address them, stamp them and add a return address, then mail in a larger envelope to the Postmaster, Loveland, CO 80536. He'll mail them in time to arrive in your sweethearts mailbox on Feb. 14th - Cancelled "Cupid's Hometown" and emblazoned in the lower left hand corner with a special four line poem....
- 15 Only 3 months to go - better get started on those 1040's. Remember part of what you earn belongs to you...
- 16 Chinese New Year
- 18 Washington's Birthday
- 20 Ash Wednesday
- 21 General Club Meeting - HOME BREW NITE. Show off to your peers what you have been doing down in the bunker all those long cold winter nites. Prizes for several classes. The Mario Raffle, Frankies Silent Auction, Refreshments. Usual place - Southampton Free Library - Street Road, Southampton, Pa. Show Time 8:00 P.M.
- 24 LANCASTER HAMFEST - First one in the nearby area. Guernsey Pavillion at Rt. 30 and 896. About 2 miles East (this side) of Lancaster. Table reservations or free outside frostbite tailgating. Info. SERCOM - Box 6082, Rohrerstown, Pa. 17603
- 28 - March 2 Free Fishing and Boating Expo- Plymouth Meeting Mall, Rt. 422 (Germantown Pike) Plymouth Meeting, Pa. A great opportunity to learn about fishing and boating the waters of Pa. Sponsored by the Penn Fish Commission.
- 29 Here's that leaping leftover day again!!

UPCOMING EVENTS

- March 2 Christiana Del. Hamfest
- April 19/20 EME Contest Part I
- April 24 Regular meeting moved up to this date from April 17th) ARRL Nite - Guest speaker, ARRL Staff Member David Summer, K1ZZ. Dr. Dain Evans, G3RPE expects to join him.
- April 26 Pack Rat Ladies Nite - Warrington Motel
- May 17/18 EME Contest - Part II
- May 20 Northeast VHF Conference

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. KENWOOD R1000 GENERAL COVERAGE RECEIVER: The first thing I noticed when unpacking this receiver, which was borrowed for this test from Hamtronics in Trevoze, was the size. Unlike many units such as the FRG 7 and DX 300 receivers, this radio is very compact. It measures under 13" wide by 8 1/2" deep and 4 1/2" high. It is the depth that counts in many cases, since this receiver can be placed on a bookcase shelf with no problems. In order to conserve space still further, the connections on the back of the radio are placed on a slanted panel. The frequency coverage extends from 200 Khz to 30 Mhz in 30 bands. Frequency and band selection is much easier than on the other receivers mentioned. The unit can be set up, using the built in timer, to turn itself on and also off, at the preset time. A five digit frequency readout is used together with a 0-1000 Khz scale on the dial. A speaker is built into the lid, and provisions are made to install three antennas. A long wire may be connected to one terminal for frequencies up to 2 Mhz, and another long wire can be hooked up for use on the 2-30 Mhz ranges. A coax fitting is provided for these same bands, together with a small slide switch in the back of the receiver to switch between the wire and coax feeds. This is in fact my only complaint concerning the R-1000. In order to select either of two antennas connected, it is necessary to reach around back of the set. This switch would be better mounted on the front panel. The three position attenuator in the antenna circuit should be very handy for use with VHF converters. The timer circuit has terminals brought out to the back for control of other station functions. The clock of course, runs at all times, so long as the receiver power cord is in. SS lineup includes 40 ICs, 11 Fets, and 63 transistors, plus 71 diodes. A very nice, smooth operating package. Price \$499.95 Kenwood literature is available at Hamtronics.

* * *

Hamtronics, Inc. has recently announced a new model R110 VHF AM Receiver Kit. In the years which they have offered FM receiver kits, many people have asked for an AM version of the kits, primarily to monitor aircraft and ELT transmission. Now it's here! The R110 is very similar to the popular R75 FM receiver kit, except that it employs an AM detector and a dual-loop agc system. Other features include wide range squelch, 2 watts audio output, COR output and "S" meter output. Sensitivity is 0.1 uv for 10 dB S+N/N. Selectivity is optimized at 25kHz (60 dB down) for aircraft service. Size of the unit is 4 inches square. Price is \$74.95. Although designed primarily for the 100-130 MHz aircraft band, models are also available for 10-11M, 6M, 2M, 220 MHz, and 430 MHz and nearby commercial frequencies. For more information on the R110 and other receiver, transmitter, preamp, and converter kits, send a SASE to HAMTRONICS, INC., 65F Moul Rd, Hilton, NY 14468 or call 716-392-9430. A complete catalog is yours for the asking!

* * *

VHF/UHF REPORT

By Jo, W2EIF

The activity on six meters dropped off noticeably in December. After Dec. 20 showed no activity. On the 21st there was some E skip to 5 land, open to Calif. briefly also Oregon. Dec. 22 with CP8AS in Bolivia coming thru with Cal. and Washington in the PM, and KH6BZF briefly. Dec. 23 and 24 and to the 31st showed little activity. Jan. 1 gave us aurora on 6 and 2 and some E skip and some xband between England and VE1AVX. The period between Jan. 1 and Jan. 10 exhibited increasing solar flux numbers getting up to 273 on Jan. 10. There were contacts made crossband, also direct with EI2W and TF3SG in Iceland was heard and worked a number of times. However, nothing heard to the West except KL7NO and WL7AFA briefly on the afternoon of the 10th. There were no openings on the 6 meter band during the January VHF Contest except a small aurora opening on the morning of the 13th. Most operators considered the contest conditions to be generally poor. However, there are many contest ops who do not particularly like band openings in January tests. It makes it too easy for the poorer equipped stations to make sections that the better equipped boys work under poor conditions. On the other hand, it must be admitted that openings in contests sure makes it exciting and probably increased participation as demonstrated in the Sept. 1979 QSO Party.

CONTEST JOTTINGS

The Board of Directors on January 10th passed a resolution dedicating the January VHF SS Contest to the memory of Herman Klein, K3GOZ.

Phil, WA3NUF won the "Crying Towel" at the January 17th meeting.

K3HW, Howard Weinstein came in from San Diego to Multi-Op with WA3FOF. Sends his best to the gang.

Tony, K4AWS reports 15 stations were heard on the air on 6 meters the week-end of Jan. 12/13. There was some activity on 2 meter FM. He misses the "Cross-Fire" from up North! Rebuilt a 1966 Old's Toronado instead.

WB9PUJ, Dick Bokern foned to say he would be on from Indiana looking for Pack-Rats on Sunday, AM, the 13th. Band didn't open up daggonit!!

K3VEQ, Joe Silverman suddenly appeared on 221.4 Mhz on AM! (The old club frequency) K3ACR tried to make contact, but Joe didn't hear Rich!

It looks like 75 logs will be submitted by the members at this writing.

K3IQO, Stan Umin made contest contacts from his hospital bed. Can't keep a good man down - by gum!

New Contest Announcement

Spring VHF QSO Party - Sponsored by NNJ ARRL affiliate the Ramapo Mountain ARC, from 1800Z March 29 until 0400Z March 31. Object is to fill the Spring gap for VHF contestors and to promote VHF SSB/CW operation without the problem of having to operate channelized FM to be competitive. Scoring and rules are the same as current ARRL VHF QSO party contests (see QST August 1979, Page 62) except FM operation below 450 MHz is not allowed. Send S.A.S.E. for reproducible copy of summary, log, and check sheets or standard ARRL forms may be used. A Ramapo Mountain ARC certificate will be issued to the highest scoring single and multi-operator station in each ARRL section where two or more entries are received. Results will be included in a Summer issue of the Ramapo Mountain ARC newsletter which will be mailed to all participants submitting logs. Mailing deadline for entries is April 28. Send summary, log, and check sheets with comments to Ramapo Mountain ARC; P.O. Box 364, Oakland, NJ 07436.

* * *

VISITORS - January 17, 1980 Meeting

WB3IND - George McMahon, Phila., Pa.
WB3EFO, Ed Lee, Huntingdon Valley, Pa.
N2ASC, Dan Curran, Burlington, NJ
John Sortor, Newtown, Pa.

Application for Membership

WB3IND, George McMahon
312 W. Rosemar St.
Phila., Pa. 19120 215-LI 9-6916

Change of Address

WB3ATA/7, Brian Mullen
1071B Glacier Ct.
Oak Harbor, WA. 98277 206-679-1692

Voted to Retired List at Jan. 17th Meeting

W3ELX, Mario DeLuca, Sr.

* * *

Lee's Scrapings

If someone calls you an idiot, don't be offended. Most of us are. The word comes from the Greek - IDIOTES, meaning "one who does not hold public office."

You've probably heard of beer and skittles. Of course you know what beer is, but about skittles???

Nothing is funnier than the look on the face of a person at the upper end of a dog leash pretending not to know what's going on at the other end. Check it out for yourself next time..

Once you had to buy an apple to help the unemployed - now you have to buy an automobile.

* * *

TID BITS

Hal Grace, W3HFY is back home again and making progress recuperating from a moderate stroke. He is back on the Pack Rat Repeater.

W2AXU, Jack Power reports the monthly mean number for Dec. 1979 is 182.2 - the smoothed number for June is 153.7 - Jack did not receive the number for May. Maybe later.

(CONTINUED ON PAGE 6)

Personal Communications Foundation President is Joe Merdler, N6AHY, 9036 Reseda Blvd., Suite 203, North Ridge, CA 91328. Phone: 213-349-2887.

W3HQT reports that VP2MFC will be on 6 meters from Montserrat - Jan. 31 to Feb. 18.

THE SAM HARRIS MEMORIAL AWARD

The Mecklenburg Amateur Radio Society, Inc. of Charlotte, NC operating from Roan Mountain, NC under the call of N4BFB/4 during the ARRL September VHF QSO Party is the first recipient of this award under the rules of the Mt. Airy VHF Radio Club, Inc. Congratulations!

KENWOOD OWNERS - now can swap information through Kenwood International Users Club. For information send SASE to N8RT, Robert Pohorence, 9600 Kickapoo Pass, Streetsboro, Ohio 44240 de PENNARC
* * *

ARRL BULLETIN NR 4 FROM ARRL HEADQUARTERS NEWINGTON CT JANUARY 19, 1980 TO ALL RADIO AMATEURS

BT: The annual meeting of the ARRL Board of Directors was held in Hartford, Connecticut, Jan. 17 and 18, 1980. Highlighting the meeting were reports on the successful representation of Amateur Radio at the 1979 World Administrative Radio Conference. The Board extended sincere thanks to all who participated, and affirmed the ARRL Commitment to further strengthening of the International Amateur Radio Union. ARRL Vice President Noel B. Eaton, VE3CJ, was named to the new post of International Affairs Vice President. Studies were ordered of how amateurs may best utilize new bands at 10.1 MHz and 902 MHz. ARRL will seek early relief from present operating restrictions on 160 meters in view of favorable WARC decisions regarding this band. In organizational matters, Larry E. Price, W4RA, and Max Arnold, W4WHN, were elected Vice Presidents of ARRL, and Carl L. Smith, W0BJW, was elevated to First Vice President. Other officers continue in their present positions. Directors Zak, Stevens, Anderson, and Wicker were elected to the Executive Committee. New ARRL Honorary Vice Presidents are Victor C. Clark, W4KFC, who did not seek reelection as First Vice President, and Past Directors W6EY and W6KW. The 1982 ARRL National Convention will be held in Cedar Rapids, Iowa, in July of that year. A committee study was ordered of possible reduced membership dues for senior citizens and others. In FCC matters, a committee study was ordered of possible expansion of the 20 meter phone subband. ARRL will seek reversal of the FCC policy to no longer give amateur examinations at hamfests and conventions. Efforts will be made to increase cooperation with FCC, especially in combatting malicious interference. In operating matters, membership input is solicited on possible further changes to the ARRL numbered radiogram list, form CD-3. Recent changes in ARRL DX Contest rules will be re-examined after the 1980 contest. International third party traffic abuses, necessary support for the Intruder Watch, and QSL bureau workload are among topics to be studied in the coming months. Complete details will appear in March QST. AR

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FROM HR REPORT NO. 285 - JANUARY 11, 1980

1980 ARRL ADVISORY COMMITTEE appointments have just been announced, with membership (and ARRL liaison) as follows: Contest Advisory Committee: K1GQ, N2LT, W3HQT, K4PQL, K5TM, K6XD, K7GM, K8MR (Chairman), K9KM, W0SD, VE7WJ. Board liaison is K0TQ, and headquarters liaison K1KI; Emergency Communications Advisory Committee: W1XA, WB2VUK, WA3PZO, N4NK (Chairman), W5GHP, WB6IZF, W0KL. Openings exist for 7,8,9, and VE representatives. Board liaison is W4WHN, and headquarters liaison is K1XA. VHF Repeater Advisory Committee: W1GXT, K2MZ (Chairman), W3YVV, WA4WTX, WA5WDW, WA6LBV, K7CR, K8RT, K9LSB, W0CJX, VE1AIC. Board liaison is W0BJW and headquarters liaison is K1FHN. DX Advisory Committee: W1OT, W2QM, W3ZN, N4MM, K5YY (Chairman) N6RJ, K7LAY, WB8EUN, N9MM, W0SR, VE3QA. Board Liaison is W4UG, and headquarters liaison is W3AZD. VHF/UHF Advisory Committee: W1JR, K2RIW, W3HMU, W4WD (Chairman), N5RA, WB6NMT, W7HR, WA8ULG, GW3NJY/W9, K0CJ, VE3AIB. Board liaison is W6EJJ and headquarters liaison is W9KDR. Public Relations Advisory Committee: No change in membership, but W1HEO is now Chairman, K2SJO Board Liaison, and W1UED headquarters liaison. (Editors Note: Congrats to W3HQT and W3HMU).

FOR SALE: 432 Mhz SSB transverter (microwave module) 144 Mhz to 432 Mhz - 8 watts - \$275 or trade.

CONTACT: N2ASC
Phone: 609-386-1540

FOR SALE: Clegg 22er FM - tunable receiver - xtal controlled xmitter 25 watts. Xtals on all favorite repeaters & simplex channels. Mint condition \$95. HB 40 watt 2&6 meter AM xmitter. Complete with pwr supply, modulator and stable VFO's. Make offer.

CONTACT: Harry, W3CL
Phone: 215-887-5052

FOR SALE: Icom IC-230 synthesized 10 watt 2 meter FM transceiver. Complete w/ 15 KHZ splits. Works great and includes manual. 13.8 VDC @3A regulated power supply also available.

Kenwood Twins. T-599D and R-599D. Both are only one year old and transmitter was hardly used. Like brand new with original cartons and all manuals (operating and service). R-599D has xtal filter for NB FM and 500 Hz CW filter. T-599D will also xmit FM.

Regency Model WT-4 shortwave receiver. Covers 55 Khz to 30 Mhz. In working condition.

CONTACT: Richard H. Pierce, K3MWV
2700 New Falls Road
Newportville. Pa.

Phone: 215-785-0085

FOR SALE: From the Estate of "Doc" Shamp, W3CLT; '75 Volkswagen Beetle, 41,000 miles, green w/black interior, AM/FM, Heater, Snows. Always in top cond.

CONTACT: W3CXU, Johnnie Allen
Phone: 215-886-4109

FOR SALE: Kenwood TS-520, CW filter, remote VFO, (VFO 520), Digital Display (DG-5) DC or AC operation. Mint \$675. Drake TR-6 6 meter transceiver; noise blanker; USB, AM, LSB and CW filters; 50-52 Mhz; AC4 power supply; RV-6 remote VFO and speaker. \$695.

CONTACT: Ron Whitsel, WA3AXV
Phone: 215-355-5730 after 6 P.M.

FOR SALE or TRADE: Heathkit HW-32A (Sb/CW, 14250 to 14350 Mhz. Mobile rig; with AC power supply, cables, mike, mobile brackets & manuals for both units. Sell for \$100. or trade for 144 Mhz. transverter to use with Drake TR-4. Both in mint condition.

CONTACT: Al Benck, N3JD
Phone: 215-643-2900 Ext. 335 9 AM to 5 PM or
215-822-2750 (evenings)

FOR SALE: 50 watt modulator \$35. 25 watt modulator \$20. 30 watt modulation xformer, UTC CUM-1 \$10. APX-6 unmodified \$20. GE 4ET26 6 mtr. FM unmodified, \$15.

Globe Hi bander - 6x2 \$35. Homebrew 6 & 2 exciter - 25 watts, \$10 ea. Clegg Zeus (needs meter) \$100. Ameco 6N2 - \$75.

CONTACT: John Taylor, K3DMA
Phone: 215-885-5849

FOR SALE: Heathkit SB300 with all filters SB400 with xtal pack, manuals. Must sell. Make offer.

CONTACT: Bruce Loss, WA3YUE
Work phone between 8AM - 5PM 215-657-4230.

FOR SALE: (From W3CLT Estate) Transceivers:

1-Swan 350 C W/xtal calibrator, \$350.
1-Swan TV-26 2 meter transverter w/xtals for 14 Mc IF (goes w/350C. \$280. 1-Swan 117 XC supply w/speaker \$80. 1-Swan 250 6 meter transceiver \$275. 1-Swan 210 - 50 Mc VFO (For split 6 meter) \$60. 1-Swan 117 Xc power supply w/speaker \$80.

1-Johnson Viking Navigator CW xmtr. \$60.
1-WD4NGG - Lo freq. multiwatt kit

(unassembled) \$2. Microphones:

1-Astatic D104 w/stand for Swan Rigs \$35.
1-Astatic 531, Mobil w/cord & plug \$18.

Antennas: 1-Mosley TX33JR tribander \$100.
1-Hi Gain 64B - 6 meters \$50. 1-KLM

144-145 - 11 elements \$40. 1-KLM Balun for above \$10. 1-Hi Gain 14 AVQ 385

vertical \$60. Antenna Specialties:

1-Trans match (Iew McCoy) 160-10-500 Watt \$80. Rotary Coil w/counter (W3AJF make!)

1-MFJ 16010 Antenna tuner (Longwire) \$30.
1-Heath HM-102 Swr & Power meter \$30.

1-Quement Electronics SWB-2 (Dual meters SWR Bridge) \$35. 1-Swan SWR-3 Mobil SWR

Bridge \$11. 1-Swan FS-1 Field strength meter & Ant. \$10. 1-Heath HN-31 (Antenna

w/oil-dummy load) \$15. 1-CDE TR-44 Rotor \$? 1-Palamar Eng. Balun - 2 KW pep, Center

feed diapole \$15. 1-Palamar Eng. VLF converter 5-500 KC \$20. 1-Amidon Toroid

Balun Kit (2KW) 4-1 or 1-1 \$35.

Coax Switches: 1-B&W 550-A-2- SP-3

position \$10. 1 - B&W ? SP-5 position \$10.
1-Home Brew-Aluminum Box 2 separate SP-4

position, w/coax & connectors \$8.

CONTACT: W3AJF, Horace Deacon
Phone: 215-VI 3-1808

* * *

Late flash: WA2ADS reports that a North Carolina 432.090 Mhz net operates on Wednesday evenings at 9 PM EST. Looking for Pack-Rat check-ins.

THE MT. AIRY VHF RADIO CLUB, INC.

JAN. 12/13 - 1980 VHF SS

1-26-80

TENTATIVE SCORES

CALL	1979 SCORE	1980 SCORE	CALL	1979 SCORE	1980 SCORE
WA3AAJ	12648	20284	W3IIT	27300	29808
K3ACR	21384	26104	WA3IMT	1200	528
N3AHI	41184	55204	K3IQO	6132	1680
W3AJF	10580	9320	K3IUV	36540	33750
WA3AQA	13860	17986	WA3IWT	////	5320
N2AQJ	////	10648	K3JJZ *	19976	15984
WA3AXV	65880	77064	WA3JUF	24948	30914
K3BPP	22992	19536	WB3KES	5616	2352
WB3CDE	31620	48840	W3KKN *	45198	50112
W3CJU	17710	24550	K3KMN	1272	6188
W3CL	18520	22494	K2KRC/3	////	4342
WB3CPW	10584	9480	K3KTY	6776	17760
WB3CTP	////	5010	K3KVS	////	13120
W3CXU	10542	10044	K3LOM	25428	30218
K3DLS/3	3216	1968	K3LYB	////	2054
K3DMA	15288	7128	N3MW	25400	19916
WA2DPU	49840	62650	K3MWV	56644	68904
N3EG *	14212	18240	K3MXM	9792	12840
W2EIF	33872	35438	WA3NDE	////	672
K3EPB	6562	8532	WA3NFV	12688	19604
WA3EPS	2112	1008	WA1NGR/3	21312	41218
K2EVW	////	1944	K3NHX	////	14826
WA3FOF *	15640	19872	W3NSI	9540	8840
W3FQD	4576	3420	WA3NUF	13904	21022
K3GAS	10868	11520	WA3OVH	6672	8400
W2GGB	4560	5208	K3PHY	3168	3696
K3HES	1104	432	K3QQ/3	6690	5728
WB3HHO	11564	8204	W3SMK	12098	14880
WB3HHP	11452	9570	WA3SPR	44	1716
KB3HE	////	10920	WB2SZK	37488	42960
K3HIN	////	10438	WA3TEM	3552	1968
WA3HIT	10036	6604	WA3TSE	////	9476
W3HK	3944	10340	K3VEQ	288	728
W3HMU	34720	34452	K3VYG	8800	12008
W3HQT	62092	70344	WB2VLA	////	10416
WA3HVL	3984	2574	WA3WAS	22080	29904
K3IGX	10680	11924	WA3YUE	19344	32368
			W3ZD	////	10208

* Multi-Op

1,184,072

1,345,722

The comparison scores are shown to determine the recipients of the special awards authorized by the Board of Directors on January 10, 1980.

215-947-8670

MARKETLINE™

SYSTEMS, INC.
2337 Philmont Avenue
Huntingdon Valley, Pa. 19006
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