

Kauai Amateur Radio Club News

March, 1988

Serving the Ham Radio Operators and the People of Kauai

February Minutes

Meeting was called to order by President Joe Soares, KH6AJ at 7:40 p.m. February 1, 1988. Minutes of the last meeting were read and approved. Treasurer Mitchell Oishi, NH6JC stated that as of that night we had \$833.48 on hand. Moved and seconded by KH6PH/KH6S to approve and motion carried.

Committee Reports

QSL-KH6LG, Jack Wada reported that 200 cards came in from the bureau.

AREC/RACES-KH6S, Bill Baisley reported that the new repeater for Wilcox had arrived but xmtr exciter was not working, so unit went back to the factory and we should hear it by the end of the month. **AH6CP-1** digipeater has been moved to a good location on Oahu at Mauna Kapu, so we should have no problem accessing the bulletin board.

EDUCATION-KH6HU, Gerry Hill stated that he has Novice class exams available but reminded all that it now takes two examiners to give the test.

VEC-KH6S reminded all of the exams to be given on Saturday, February 13, at the First Hawaiian Bank, starting at 9:00 a.m.

Old Business

CAPTAIN COOK CAPER-KH6AJ asked for volunteers to handle the race route on Saturday, February 22. It was moved/seconded/approved that the club support the activity as part of our Public Service obligation. Volunteers to check with Joe.

New Business

KAPAA SITE-N7KWS, Bob Fuller requested that the club schedule four meetings a year in the area of Kapaa so that North Shore members could get to meetings. After discussion, it was M/S/A to get approval to use the Civil Defense facility in Kapaa which had been offered before. Some of the North

Shore group have offered to get the facilities in shape for our meetings by April when we will start a rotation through all three sites, Lihue CD, Kalaeo and Kapaa CD.

MONDAY NET-NC for the month is **KH6DLW**, Ryoko, with **KH6LG**, Jack and **KH6FK**, Sonny as alternates.

GENERAL-Discussions were led by **KH6ZT**, Al Morgan on activities for the club such as xmtr hunt, auction, classes at KCC and need for members to serve as "Elmers" for Gerry Hill's students who become hams. **N7KWS** offered to lead a group on improving the antenna situation for the Hanalei repeater. They will coordinate through **KH6DXO**.

The business portion ended at 8:40 p.m. with a short break for refreshments followed by a video, "New World of Amateur Radio" arranged by **KH6HU**. On display were some very old gear collected by him.

Respectfully,
WH6AXL, Kimo Ahia,
Secretary Protom

Exam Results

The Happy Five

February 13 was not a bad luck day for five of the six taking license exams as these came away with new privileges and big grins.

Nothing to Technician:
EDWIN BULLOCK

Novice to Technician:
KB6RCB - Nancy Sue
WH6BTQ - Malcolm Higa

General to Advanced:
NH6NG - Morley Genuth
WA6SLF - Jeff Sue

We'll be listening for the above and especially for that pair, Nancy and Jeff!! Congratulations to all, and thanks to the VEC's.

Next examinations are scheduled for May 14th.

This Month...

March Meeting at Lihue CD

Hope to see all members at the Lihue Civil Defense Center, March 7th at 7:30 p.m. for the next meeting. After the business portion, we will take an orientation tour of the Communications Center to familiarize us as to the gear and capabilities. This would be of great help when we respond to assist during an emergency. Mark your calendars and be there!

February Honor Roll

The following calls have made the honor roll by attending the meeting on the first! What a crowd, especially from the North Shore.

KH6AJ	WH6AXL	W6BRD
K6ZUP	W2JPE	KH6ZT
WA6SLF	KH6CKW	KH6MY
KH6JI	NH6FJ	KH6EZ
KH6HU	KH6DLW	KH6LG
N7KWS	KM6Z	NH6JC
KH6FMT	KH6PH	NH6NG
WB6YVM	KH6DXO	

Also glad to have Donna Genuth and Bernice Burkhart joining us for the evening.

Will your call be on the next honor roll?

Kauai ARC
Meeting
March 7, 1988
7:30 p.m.
Lihue CD Center

Goals of the Kauai Amateur Radio Club

The following goals were accepted and filed by KARC members on October 17, 1983. Since we have many new members, this is being published.

1. Provide public service and assistance by:

A. Communications support for the Kauai Civil Defense Agency in emergency situations, weather alerts and other similar alert situations.

B. Relay of health and welfare messages during emergency conditions and relay of non-commercial traffic during normal circumstances for the general public.

C. Support of communications requirements of charity, benefit and non-profit activities in the county, when requested, to the extent appropriate to our resources. These activities include such things as walkathons, marathons, anniversary and centennial type historical celebrations, etc.

2. Solicit new radio amateurs and assist them in obtaining their licenses. Assist all island radio amateurs in upgrading their licenses and improving their operating environment and procedures.

3. Sponsor and support VHF repeater facilities for emergency and normal use as follows:

A. One two-meter repeater on Mt. Kahili or at such other location as will benefit the majority of club members and achieve the greatest communication coverage on the island.

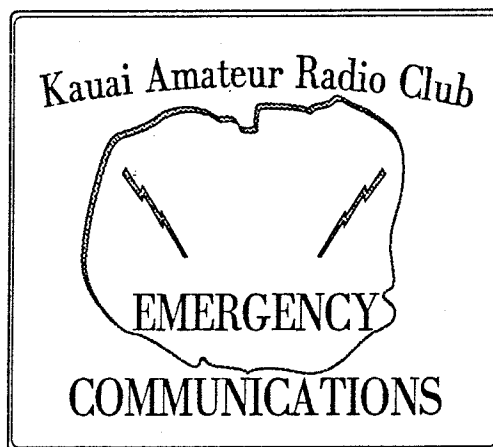
B. Three two-meter repeaters in an "Emergency Grid" at locations capable of being linked together that will provide the greatest communications coverage on the island for low power "handi-talkie" transceivers.

4. Improve organized and cooperative operating skills through such activities as:

A. Annual ARRL sponsored "Field Day" in late June to develop and sharpen long distance communications capabilities under conditions of portable operation with emergency power.

B. Annual ARRL sponsored "Simulated Emergency Test" or SET in mid October to develop individual emergency equipment and capability, and to improve group internal cooperation and the ability to communicate with external agencies and stations as required under simulated emergency conditions.

C. Sponsorship of a local weekly VHF net each Monday to help improve individual "Net Control Station" skills, to disseminate pertinent ARRL Bulletin and used equipment information, local happenings information and to discuss any technical or other topics that net participants may have.



President's "CQ" Corner de KH6AJ

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"HEY" how about checking in on KARC Monday night VHF net? Lots of useful information by KH6S, such as DX Bulletin, Swap N' Shop, ARRL News, all right up to the hour current. Monday nights at 8:00 p.m. HST on 146.92. Get your net experience.

Club Treasurer Mitchell, NH6JC is willing to take your \$12.00 dues for 1988 and hand out a new membership card.

Something for the future? You Betcha! Jerry, KH6HU is busy on details for a grand "FOX HUNT" (xmtr hunt) that will test your skills in building DF antennas. Get with Jerry if you have helpful hints or can help.

Captain Cook Caper 88 started with some confusion but our capable five, KH6BAS Ed, WA6SLF Jeff, KH6EZ Ed, KH6PH Ron, and NH6NG Morley all had a grand time ending with brunch at Green Garden. Grapevine has that Ed (BAS) was using a "Silent Rig".

Don't forget that a "Top Newsletter" can only be with your help and input. Send in your bit for Hints & Kinks, Hookups, Foulups, etc., and any ham shack discoveries you have made.

Heard about the guy on Puu Road who could hear and work 146.92 real good but no luck with the 147.04 machine? Tried all kinds of antenna and other hookups, just forgot to push the switch from minus to plus!!! 73's...

President.....	Joe Soares.....	KH6AJ
Vice President.....	Ryoko Sokei.....	KH6DLW
Secretary.....	Patty Kaliher.....	NH6AO
Treasurer.....	Mitchell Oishi.....	NH6JC
Activities.....	Al Morgan.....	KH6ZT
Education.....	Gerry Hill.....	KH6HU
QSL Cards.....	Jack Wada.....	KH6LG
Awards.....	Juan Lorenzo.....	KH6JJC
ARES/RACES.....	Bill Baisley.....	KH6S
VHF.....	Ron Kokubo.....	KH6E
VEC.....	Bill Baisley.....	KH6S
Newsletter.....	Kimo Ahia.....	WH6AXL

How To NTS (on packet, that is...)

(This is an edited version of the file *howto.nts*, which is available on most packet BBS'es. For more information, see the entire file.)

Sending NTS messages on packet is simple and easy. What if the local disaster agency asks you to send thousands of radiograms out to relatives and friends of victims telling them that they are all right? This is where the National Traffic System (NTS) radiograms can do the job as a public service. WORLI devised a way where third party traffic could be deleted by traffic handlers, the "T" option. If you send a message "ST" then it can be read and killed by anyone.

Let's see how to actually use NTS and send a message. Existing packet BBS system works fine for ham to ham communications as long as both hams are on packet and know each other's BBS. Otherwise the message must be sent to special designators and in NTS format. It is important to use the accepted and nationally recognized designators so

traffic isn't delayed needlessly.

Currently the recognized designator is the 5 digit zip code in the "to" column with the "ntsxx" abbreviation in the @ column, where xx is the standard abbreviations for States and Provinces.

Messages sent with inadequate addresses and without phone numbers may be impossible to deliver. There is a ham on the other end who has to deliver the message and we should make the task as easy as possible.

NTS MESSAGE FORMAT

NTS radiogram format is like an envelope within an envelope. The outer envelope is the packet BBS message itself being forwarded via BBS forwarding protocols. The NTS envelope is the age old NTS radiogram format which can interface with local and section nets.

Standard ARRL message form requires a number, station of origin, word count

(check), place of origin, date and time. Separate the text with a BT. End the message with the signature and the pro-sign AR.

Here is an example:

prompt >

(Note, the ">" is your prompt)

ST 60625 @ NTSIL

Use ST zip @ NTSXX, where XX is the state or province abbreviation.

Enter title for message>

QTC 1 Chicago Il 312 555

Give quantity, qth, first 6 digits of telephone number.

Enter text and close with a Ctl-Z (^Z):

Nr 1 W6ABC 20 Fresno Ca 1230Z Nov 1

(Standard NTS format)

Mr George Smyth (Addressee)

2315 North Oak St

Chicago Il 60625 (Include Zip)

312 555 1212 BT (Give Phone number)

use BT to separate text

Hi Dad arrived safely at

(five words per line

San Francisco X stop over

makes it easy to

only two hours then Guam

check the word count)

X will write soon love BT

(give BT at end of text)

John AR

(Use AR at end of message)

Include all helpful information in the address. If there is an apartment number or a space number (mobile parks), zip code, area code, etc. be sure to include it when entering the message. Always check for typos.

Note: In Hawaii, at present there is a slightly different system. Use:

ST 12345 @ AH6GJ

and for subject, use:

QTC 1 Chicago Il 312 555 @ NTSIL

You may have to adjust the subject so that it fits (remove spaces). The reason for the difference is because traffic is first sent to AH6GJ, who has the HF packet link to the Mainland. He manually reformats it into standard form, then sends it via HF packet to the next destination. This procedure may change in the future, to something closer to the standard practice.

Plug Out QRM & QRN on CW

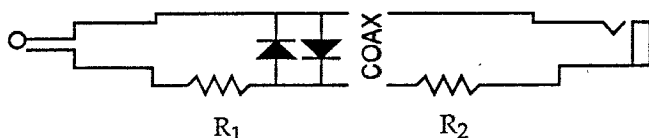
KA7RSF, Russ McCrackin of Corvallis, Oregon, developed a handy noise chopper that can be had for a few bucks and a little effort. It is built into a phone plug and jack connected back to back with a short coax, and uses two 1N4001 diodes, 27 ohm 1/2 watt and 115 ohm 1/4 watt resistors.

He found that at 0.015 V to his 8 ohm phones the signal was S2, at 0.10 V it was about S6, at 0.25 V around S9, and at 0.3 V it hurt. If copying CW sig at

0.15 V, QRN & QRM would be in excess of 5.6 V!!

The selected diodes start to conduct at about 0.6 V so if the signal at the rig is 0.675 V or less (set by A.F. gain), the voltage at the diodes will be 0.600 V or less and the voltage at the phones is 0.25 V or less. If QRN/QRM at the rig reaches 5-10 V the diodes conduct, with only 0.6 V to the R₂ earphone circuit and phones get only 0.25 V. With a faint sig, turn up A.F. gain but noise stays the same.

Peaks on QRN/QRM are usually shorter than a dit or dah, so you can still copy CW. Build it with R₁ and both diodes in the plastic sleeve of the plug and R₂ in the jack sleeve with both joined by 4-8 inches of mike coax. If your phones are hi-impedance, increase R₂ by several times the phone impedance.



R₁ = 27 Ω 1/2 watt R₂ = 115 Ω 1/4 watt
Diodes = 1N4001
One each phone plug & phone jack

KAUAI ARC News is published by Kauai Amateur Radio Club as a service to the membership. Any other group may use articles providing credit acknowledgment to the original source is given. Comments should be sent to the Club address or directly to the Editor:

WH6AXL - James Ahia, 4160 Omao Road, Koloa, HI 96756

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Area & Local Nets

HST	Day	Net	Frequency
1900	Mon	State RACES	147.04 +
2000	Mon	Kauai ARES	146.92 -
0700	M-F	California/Hawaii	14340
0900	DY	Friendly	7285/3855
1130	M-F	Maritime Mobile	21404
1500	DY	Pacific Maritime	14313
1600	DY	Hawaii Afternoon	7290
2200	DY	Pacific Interisland	14315

Get into the nets for traffic experience and hear how others run a net.

Local Repeaters

The following are listed by their output frequencies with sign for input offset.

Location	Freq.	Call	Sponsor
Lihue	146.82 - OAE	KH6DLW	Kauai ARC
Kekaha	146.86 - O	KH6ENC	HANG Amateurs
Mt. Kahili	146.92 - O	KH6S	Kauai ARC
Lihue	147.04 + O	NH6FJ	State RACES
Hanalei	147.16 + OE	AH6EC	Kauai ARC
Lihue	147.34 + O*	KH6BFU	KH6BFU
Kalaheo	449.25 - O	KH6JI	KH6JI

* Repeater is open but activated at sponsor's convenience.

KH6DLW repeater will have a frequency change to 146.78 when the new gear from Spectrum is installed by early March.

A: AUTOPATCH is accessed by identifying yourself, enter *(star) and the phone number without stopping, listen to the readback, key your mike once, and number will dial. After call, close by entering #(pound sign) and again identify.

KAUAI ARC News

KAUAI Amateur Radio Club

P.O. Box 548

Kalaheo, HI 96741

FIRST CLASS DATED MATERIAL

Lihue CD Center
Kalaheo Community Center
Kapaa CD Center

Meets on the first Monday of the
Month at 7:30 p.m.
(March 7, 1988)

