

# ZERO BEAT

published by W4NTR-NØASM



HEADQUARTERS MARINE CORPS HENDERSON HALL ARLINGTON, VIRGINIA 22214

June 1968



" Hey Marge, There's Some NUT here who  
Says he's from MARS wit some kin'a  
telegram. "

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# Ye Ole Editor

Wesley L. Wilson

The annual Armed Forces Communications Electronics Association Convention was held 14, 15 and 16 May 1966 in the Sheraton Park Hotel in Washington, DC. K4NAA/3 was very active, averaging twelve hours of operation a day modulating a Cyclone SE400 and a Hurricane SR2000 both by Hallicrafters. During the hours of operation over 200 contacts were made using a HT18 and a TH3 as signal squirters. Special thanks should be given to Hallicrafters Company for furnishing the transceivers.

The Marine Corps was well represented. WO Joseph (Joe) Van Brocklin was ever-present and contributed greatly to moral support. Joe should have been called Mr. "Hospitality"!!! Operators included Gysgt "Bill" Tweed, SSgt R. "Smitty" Smith, SSgt "Bob" Rivera (called the Pinapple), SSgt "Larry" Banks (sometimes known as JGG), Cpl "Bob" Mattson, Cpl Laub and yours truly. Operations were controlled and regulated by OIC NAV/NCR/K4NAA, Ens. K.H. Pearce and chief operator RMCS T.P. "Terry" Weber. Maintenance and technical assistance was provided by Mr. Raymond "Ray" Donohue, Navy Systems Command. Among the Navy operators were: Chief "Terry" Weber, Chief Gardner, and CT1 McPhail.

any VIPs placed their names in the guest log located on the console. I'm sure it must have resembled the Baseball Hall of Fame roster. Among those signing was Admiral T.H. Moorer, Chief of Naval Operations, Admiral F.J. Fitzpatrick, soon to be ACNO (comm)/ COMNAVCOM, and Admiral R.H. Weeks, Deputy Director DCA.

Throughout all the exhibits only one true amateur booth was noticed, that of Conset. It is well understood that the convention was geared to military and industry but it is believed that amateur radio should have been better represented.

One outstanding experience was Ye Ole Editor meeting a longtime friend, N.R. "Kit" Kitterer, now of Linear Systems Inc. In 1961, Kit retired as Msgt from the Corps and is now executive vice president of Linear Systems Inc. which makes SSB gear for the military. You may have seen the ads in QST or CQ. Those of you who are ole timers may remember Kit from KR6MD and W6IAB. Kit may be contacted at 265 W. Phillips Road, Watsonville, Calif 95076. His amateur call is W6AIF and he just re-

Ye Ole Editor...continued from page one.

cently acquired the Navy MARS call N0AUF. Now I wonder how that happened?? Hi Hi

Ye Ole Editor is somewhat disgrused with the lack of participation by the Marine Corps stations contributing to ZERO BEAT. We here at Headquarters also are very busy as evidenced by the traffic totals but we still can find time to edit and publish ZERO BEAT. Very few station contribute and the ones that do are very good but we need more material. We have not been beating the bush to get articles but do not be surprized if you get a phone call. You should be proud enough of your station to have its operations published. The Marine Stations bear the larger part of traffic handling and it is a sorry state of affairs when civilian and Navy articles far out number Marine articles. The more articles, the larger the publication thus spreading the word. Be proud of your station and let all readers know...

And did you hear about the supply and training base in Rhode Island asking NOWCK where N0ICE was located??? Seems that they were thinking for some reason that N0ICE was located in Iceland and had the beam headed that way. Improved signals 100% when the error was discovered and the beam moved south and not north !!!!! That's progress.

Curses, oh a thousand curses to the Ye Ole Editor for letting several ZERO BEATS get lost. Sorry 'bout that Yo. C U next month, Wes

Those of you who have trouble understanding and deciphering the functions of the Teletype article are invited to call or write to the editor and amplifying in-structions will be given. It is one thing to understand fuctions and another to write about them !!! Wes

## The NAVY MARS MAJOR RTTY RELAY SYSTEM

Don Chilicote

Keeping in mind that a date time group is made up of a two letter date and a four letter time group and only ZULU (GMT) is used, I think we need not dwell any further on that line of the message text.

I would now like to skip down to the text of the message. This is the part of the message that expresses the originators thoughts and ideas. Some people will say that some of the statements I am about to make cannot be but I and many others think they can.

The idea of a message is to pass from the originator to the addressee the thoughts of the originator. If he uses his own words, sometimes a message is three and four times as long as it need be.

I maintain that, if you alter his phrasing but not his ideas you do not change the Meaning of the message. For example: I love you and miss you. WHY not.. love and miss you. The I must be the person who wrote the message. A lot of times he will say things that could very well be covered by MTX or ARL text. For example: Everything is ok here, things going great, hope everything is fine at home. Will write when I get the chance. WHY not change it to read MTX or ARL Eighty Six. It means: Everything well hope all well there, will write soon. SAID the same thing didn't it?

We in the traffic system are here to serve the message originator, but if we can do the job and cut down on some of the typing, why not? I do not advocate changing a message that is not originated by our station. If this were to happen, messages would be down to nothing by the time they got to the destination. I do say that the originating station can surly cut some of the extra word's out and substitute standard texts for "almost" identical plain language.

When you type these messages up in message form try to use as few paragraphs as you can. Some messages I have seen have a different paragraph for each ARL texts. This IS not necessary. Nor is it necessary to have a separate paragraph for the

The Navy MARS Major RTTY Relay System continued

signature. Paragraphs should only be used to clarify the message. Remember, it takes ten (10) character functions to start a new paragraph and only three to start a new line.

Try to get as much on a line as you can. Do not go over 69 characters, but go as close to it as you can. This not only saves work but paper as well.

If you disagree with me on parts of what I have said, why not speak up. Send a marsgram. We can use the traffic in the system.

73 and good luck in the contest to stay sane...Don

Editor note: We understand that Don has been appointed Area Coordinator of Hawaii. Good Luck Don in your new post.

The OOPS department,

DE NAV 14

R 061959Z HAY 68

FM N0ASL

TO NAV TWO

BT

UNCLAS

A. ZERO BEAT APRIL/MAY ISSUE

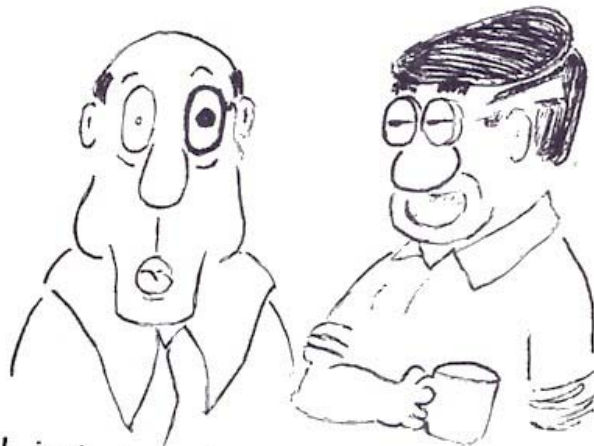
1. BE ADVISED AREA COORDINATOR NAVY MARS OKINAWA IS CPL JAMES TUMILTY
2. WEST IS AMATEUR RADIO COORDINATOR FOR SPECIAL SERVICES DEPARTMENT
3. MAC GOOD JOB MEN

BT

We are so sorry that we have listed Don West as N0GOK, when this was Jims job,

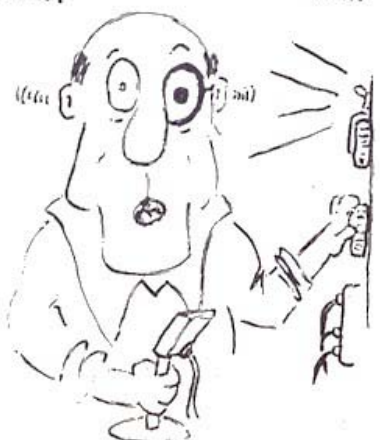
# Zero Beat Welcomes ... Decible Dan to the Staff.

Decible Dan - Sgt. PJ Nolan  
Kill A Hurt - Sgt. JADugan



"I just came back from MASTER CONTROL STATION, NAV4 and Alexander Gram Bell was set up better in 1902!"

"Remember Those Loose Tuning Slugs? I Tightened Them All Double."



9th District Nets MAKE My EARS Quiver!



"Keeping IN SHAPE TO STAY ON TOP!"

Managing editor note: Wes is going to start a series of articles being with this issue on the theory of operation and workings of the model 28 equipment. Wes went to Teletype school in Chicago so he is well qualified to write on the equipment.

# TEK - TALK

The Model 28 Teletype usually includes all teletype equipment with a nomenclature of L. The use of the capital letter L indicates that this equipment is heavy duty. Below is a list of designators that are common and may be used along as a group to identify componets.

L	indicates that the equipment is model 28 and	heavy duty
A	" " " " " " " "	automatic
B	" " " " " " " "	base
C	" " " " " " " "	cabinet
P	" " " " " " " "	perforator
R	" " " " " " " "	reperforator
E	" " " " " " " "	equipment
XD	" " " " " " " "	transmitter-distributer
MU	" " " " " " " "	motor unit
T	" " " " " " " "	typing
K	" " " " " " " "	keyboard

This is only a few of the various nomenclatures that are available but ones that are most common. It is possible to combine various letters and come up with an idenity such as: LPE, LAK, LMU and LTPE to name a few. They mean the following: LPE: model 28 non-typing perforator. LAK: model 28 keyboard. LMU: model 28 motor unit and LTPE: model 28 typing perforator equipment.

Teletype cabinets usually carry nomenclature, LAAC, LACC, LaBC etc. Model 28. ASR indicates that it is a model 28 automatic send receive unit. A model 28 ASR



Tek-Talk continued

will normally consist of the following:

LAAC.... cabinet

LAK .... keyboard

LTPE.... typing perforator

LTRE..... typing reperforator

LMU .... motor unit

LESU... .electrical service unit

LCXB.....transmitter distributor base

LXD .... transmitter-distributor

LP ..... typing unit (also called automatic typer)

Keep in mind that this does not mean that all this equipment is in your model 28 ASR. It is highly possible that it could be less but I do not see where it could be more.

The LAAC cabinet is self explanatory, there is no need to give a discription of this **unit**. Its main function is to house and provide access to the inclosed units, external signaling by lights and switching LAK.

The model 28 keyboard consists of a keyboard guide assembly, front frame, guide plate, key levers and ball assembly, signal generator assembly reset cam follower assembly and code bar extention basket assembly. There are other assemblies mounted or associated with the LAK but not really necessary for operation of the unit with the exception of the LMU.

NEXT MONTH... the theory of operation **of** the LAK.

73 ...WES

From the ROCK

Don West

Am a little tardy in submitting this months report, however, due to the Inspecting General's inspection in progress it could not be avoided. Better late than never.

Missed ZERO PEAT out here for the month of April. Understand you ran into an overload so hope things are back to normal by now.

Have been overlooking one important item since submitting those monthly articles, and that is the introduction of the operators. Will take the opportunity to do this now.

At KR6GF (Camp Foster) we have Jim Tumilty, K3QYH who has been causing QRM from Okinawa for the past three years. He also operated from KG4AM fro a brief spell in 1965. Congradulations are in order for Jim due to his recent marriage to a gal out here. They will be returning to the states next month for separation from the Corps.

At KR6MB (Camp Schwab) there is Chuck Reichert, WA8NBD who is a newcomer to the system. This is his first station, but will probably be heard from other QTH's during his tour.

Dave Littleton, K3YUC is CHOP at KR6MH (Camp Hansen). As most of you know, Dave has been in the system quite a while. He covered most of the stations during the regime of the division out here - about four years worth - so he is quite at home. Before coming to Oki, Dave was CHOP of W4NTR.

The junior operator at KR6MH is Bob Pond, WA4YBV who is another newcomer but holding his own with all the transit traffic. He had to learn fast!

Rick Yazell, K4ZUQ, who was junior op at KR6GF, departed for CONUS last week with orders to the 2nd Marine Division, Rick was also a newcomer and look to hear from him at W4LEV.

I have been operating from KR6DI (Camp McTureous) and love it.

Well; imagine that will take up enough space for this month so until we meet again, remember: An eye for an eye and a tooth for a tooth, can play heck on the looks.

73 Don

# Push Pull Charlie

Assignment made: general policy of operation (guideline)

You have made your request for phone patch activity, you have tested the freq. now you are assigned accordingly. Your assignment came in this form to you:

FM N0PPC

TO N0ANP

BT

UNCLAS

A. RVN/CONUS P/P assignment

1. N0ANP is assigned to the RVN/CONUS P/P activity on freq 20625 (20623.5)  
USB work N0EFL, N0FFO

2. N0PPC SENDS

The above message is more lengthy and is info to numerous personnel and stations but will suffice for illustration here. Now your on the freq and are ready for normal phone patch activity. You work directly with your RVN station or stations and in the event there is more than one RVN station on the freq with you, you and your RVN stations make up your own scheduling, split the usable time to the best advantage for the accomplishment of the most phone patches and of course keep in mind the "fair play" idea of working out scheduling that will give each RVN station some of the "fringe" time at the start and end of schedules, and some of the "solid" contact time.

As to the policy of how calls are placed and conducted, this too is worked out among yourselves. Generally, the area you are in has a lot to do with how the calls are placed! Some telephone people will only accept one call at a time, some will take a "group" of calls at one time, some will go ahead on calls, others will not work ahead for you, and for RVN, some stations have various land-line call rulings to effect the most-for-the-time to them, so there are variations of operations both end, and you settle your operational needs and set your patterns early and make your general operations on a given day the same, then each of you know exactly just how you are going to accomplish all the calls each and every day.

Coordination: There is a lot of coordination that MUST be done by both RVN and CONUS stations. Equipment problems arise, propagation gets almost to the point of non-existing and band openings become erratic. These are the biggest problems

Push-Pull Charlie continued

generally encountered. When such conditions exist, then you both must make attempts to contact other gateways to get the word and info passed to those your working on just what the problem is and when humanly possible work to the solving of the problems. DON'T SIT AND WAIT FOR THE OTHER GUY to start the checking and investigating. Do it on your own!! And the same holds true for good conditions; perhaps you hear the far east on close or associated freqs to your own. Then let your station(s) know, perhaps the freq can be tested at times convenient to both of you and more usage of the freq and phone calls can be accomplished.

If you feel yourself and the station(s) you are working can not resolve a given problem or can not agree on a correct approach to a matter, THEN each must go to his next echelon of authority for clarification/decision. This to others concerned like the Area Coordinator, local director etc and RVN does the same. Then in most cases, I bring the problem to RVN Area Coordinator and we try to resolve the problem or at least approach an "interim" measure of solution until a decisive solution can be obtained. In matter of freq, stations being assigned, changing of stations from primary to backup etc, these are NOT the prerogative of the individual station, such matters are handled by request to and through the appropriate coordinating authorities only and generally info to higher authority as the directors and Chief, NAVY MARS for any comments/objections/suggestions which may pertain to the situation.

Changes that are made in freq/station assignments are sent to the individual stations concerned and info to all other stations that are active on that given freq, only. Info to appropriate higher channels affect your freq, however, there is a quarterly RVN/CONUS/ P/P assignment listing that comes out and at the time it is sent has all the latest and most current changes/scheduling in effect. Then you know of all the freqs and stations activities. Along with this quarterly P/P listing, there is also an address listing sent. This gives the name, station/activity, address, autovon phone area code and commercial phone listings that tells you who and where the P/P stations are. Should either of these listings not be correct where you are concerned, simply send your message with the correct info to NOPPC and the changes will be made.

Push-Pull Charlie continued

Remember, operational policy is yours and the stations you work with to establish, general policy outside the scope of your own operations to accomplish the job is the work of those designated to perform such tasks and go to them for advise/send them your ideas/suggestions/comments and constructive criticism and keep in mind, no station will run itself, no program goes alone on merit only, it takes work, thought and common sense to make any aspect of any program fruitful.

Next month: ATTEMPTING TO PLACE P/P'S INTO RVN and relative problems for RVN by such attempts.

73 Bob NOSUZ/WB6OPA

Did you know that an electron is any of the non-nuclear, negatively charged particles that form a part of all atoms, each carrying one negative charge  $1.6 \times 10^{-19}$  coulombs inside? ?

Traffic Report for April 1968.....for N0ALM

	ORIG	RCVD	RELY	DLVD	TOTAL	TOTAL P/P
N0AMC	7	2	0	2	11	0
N0ANP	191	2326	2209	36	4843	1546
NAV 2	57	2106	2135	29	4316	684
N0EEM	4	5	-	4	13	1049
N0EFA						
N0EFB	797	2774	3660	-	6436	743
N0EFC						
N0EFD						
N0EFJ						
N0EFL						
N0EFY						
N0ENV	16	71	77	16	173	509
N0ETG	109	702	649	53	1513	98
N0ETH	7	5	3	2	17	0
N0ETJ	0	0	0	0	0	0
N0ETL	0	0	0	0	0	0
N0FAA	15	511	464	20	1010	1151
N0FJM	0	2	0	2	4	742
N0FOC					5	0
N0IVT	-	1	-	1	2	73
N0IXF	41	240	234	5	529	0
N0IZG	1	2	0	3	6	11
N0RSB	85	34	8	34	156	1469
N0RSE						
N0RTP	24	155	124	14	317	0
N0RTW	16	51	23	24	114	2765
N0TEF						
N0XXN	16	113	106	10	245	0

Late reports:

Note: N0ETI and N0ETK are inactive. Parris Island has no station.

Traffic Reports for April 1968. . . . . for amateur operations N0ALM

	ORIG	RCVD	RELY	DLVD	TOTAL	TOTAL P/P
W4BHU	0	164	155	8	337	0
K4BUJ	0	0	0	0	0	27
W4LEV	1	0	7	0	8	53
K4MCL	1	2	0	1	4	47
W4NTR	26	16	41	1	84	0
W4PFC	25	107	45	11	188	10
KG4AM	0	0	0	0	0	588
KP4AZJ	1	0	0	1	2	436
KA5MC	Not applicable in Japan . no third party agreements.					
W6FCS	3	0	3		3	104
K6MCA						
W6YDK	7	17	10	7	41	28
W6ZJB	0	15	2	13	30	438
KH6AJF	0	3	0	3	6	73
KH6BGS	0	1	0	1	2	133
KR6DI	2	0	0	0	2	402
KR6GF	12	15	8	7	42	647
KR6MB	14	0	2	0	16	394
KR6MH	118	23	23	0	164	2321
WA7AAJ					2	2
W6IAB						

Attention: all stations that wish to be listed in ZERO BEAT will please use the form provided and separate all traffic into four (4) categories, namely: ORIG, RECVD, RELAYED, and DLVD (local)/Okinawa FORMS comply with ours so they may use those. If you send a message plse use the format in our form and better yet mail us a copy also.

Remember the system is only as stong as the weakest link and from the looks of the responses, some stations could care less, so to accomadate them we will start next month dropping stations off the mailing list who have not submitted reports of any kind in two or three months.

Come on now.....Are we really asking that much??????

Smitty/Ed