THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

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* JULY 6, 1989 *
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K2BPP TO SPEAK ON HURRICANE GILBERT IN JAMAICA

ALL ALONE AND NO TELEPHONES

Dave Porter, K2BPP/6Y5 , a member of our club will be the speaker at the July 6th meeting of the Delaware-Lehigh Amateur Radio Club.

Dave operated during the height of Hurricane Gilbert and working with Bill, K3ANS handled many phone patches to arrange cargo planes to bring in emergency supplies.

Dave who was in Jamaica for AT&T installing a new digital satellite communication system saw his Icom 735 jump off the table while connected to his coax, which was pulled to the window, when the storm hit.

He moved to the bathroom, and continued to operate until he moved to the control tower at the Montego Bay airport. He was on from the Hotel Winham which had emergency power and Dave will tell of his experiences during the several days when he was the only communications from Jamaica.

Dave, who has been a speaker at our meetings and banquets in the past, is the first person to stand at both geographic poles and the magnetic North Pole. He has operated in the past as VP2EEE (Anguilla); K2BPP/KS4; KC4UWV, KC4USB, KC4USN (Antarctica); and K2BPP/Arctic Ocean.

It will be an illustrated talk and will be well attended..Some come early to get your seats.

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OPERATING PROCEDURES FOR W3OK

For the benefit of all members and especially the newer ones, included with this issue on one of the pages is a suggested operating procedure guide for the use of our repeater.

If there is any question, do not hesitate to check with one of the Board of Directors.

N5IEP NAMED PIA

Vern Burden, N5IEP has been appointed Public Information Assistant for the Delaware Lehigh Amateur Radio Club by Kay Craigie, SM for Eastern Pennsylvania. This is ARRL appointment and as such Vern will be responsible keeping the local newspapers, radio and TV stations informed of club activities. Aiding him will be N3EYT who has offered to help.

If you are involved in any amateur activity that may be of interest to the public get a hold of Vern and let him know. He will be building up an association with the local media and may be able to help.

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DERRIERE IN THE DELAWARE
JULY 16th

As we have done in the past, we will again participate with the Red Cross in the communications for the Derriere in the Delaware safety watch.

With two of our members riding the river with the water rescue units and at least 8 or 10 others in key positions along the river it becomes one of the big donations of public service by EMA and our club.

Parking will again be arranged, for all our members and the command post will be the EMA Comm Van. For those who have not participated before, come join in the fun of a great day out. All volunteers must register at Scott Park before the event. Leave Vern, N5IEP know if you can help. You must report to Scott Park Easton by 8:00AM de <W3PYF>

A FEW MINUTES WITH NQ3D

The monthly meeting of the DLARC was held at the Greystone Building in Nazareth on June 1, 1989 with president W3PYF presiding. There were 60 members and guests in attendance.

The minutes of the May meeting were read nd approved. Treasurer KA3MNY reported a club treasury balance of $6373.59 as of June 1st.

Two new members were welcomed:

N3CZC.....Alex Oatapenko

WA3KIF.....Mark Miller

Robin, KD3HS, reported on the upcoming QSO sked with the Northampton Radio Club of Northampton England. On November 19, the Northampton RC will operate to celebrate the 800th anniversary of Northampton, England.

The English club presented a plaque with the Northampton England Coat of Arms to the DLARC.

W3PYF asked for volunteers for the Gracedale, EMS evacuation drill to be held on June 13 at 7 PM. The following offered their services: KC3CR, N5IEP, K3ANS, WA3ENEk, W2SPK and KA3RBH.

Volunteers will also be needed for the Red Cross Derriere in the Delaware on July 16th in Easton.

Easton Hospital has donated a 100 watt Motorola base station to the club. A committee consisting of K3CP, W3TDF, K3EX, W3LR and W2SPK will be formed to investigate its best possible use.

At a poll taken at the meeting, of the members present, K9TBD indicated that approximately 26 of the members had digital capabilities.

W3TDF reported on the annual banquet which had 60 members and guests present. Ray gave credit to the following for helping make the event a success: W3TEB, programs; WB3BJL, decorations and favors; W3OK, prizes.

KU3X PRESENTED A "DLARC DX-100 AWARD" endorsement for 200 countries to Rick, K3OO. Rick accomplished this mixed band/mode with 2 WATTS OUT!!

KU3K reported for the Field Day committee and reminded members to bring a friend along for the annual outing to be held on June 24-25 at Hacketts Park, Easton. Bob also announced that we will have use of the pavilion this year and the club will make a serious effort to put a Novice station on the air for the entire period. W2CCE has offered a 10 meter beam and W3TDF has offered the tower. N3GMI volunteered to handle the purchasing of the food and KB3RI will handle the liquid refreshments.

The club received equipment from the estate of K3CIS. All material will be sold on a first come first serve basis. The equipment has all been checked out by Barry, KU3K and is in excellent condition. It includes an all band Yaseau rig and a Clipperton L Amplifier.

The business meeting was adjourned and a very informative presentation of MARS operation was made by W3BI, WA3ENE and K3YD.

de Mike, NQ3D Secretary

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FOR SALE

Bill, K3ANS has for sale 360 feet of heavy duty tower. The sections are 18 and 20 foot lengths. All well braced. They have 1 1/4 diameter tubing. They are about the size of Rohn 45, but stronger looking. Price is $50.00 per section and includes stainless bolts and hardware..Special price if you take it all. Call Bill at home (215) 258-5063 or office (215) 253-2745.

Ralph, N3FFW has for sale a tower. It is 12" Triangular. Three 10 foot sections with a 1 1/4" heavy wall aluminum extension pole. The rotor and cotrol box, plus the base plate that is installed in the concrete. Ralph is asking $250 for the lot but will consider a trade for a 2 meter hand held. Call Ralph at (215) 759-8989.

WE DID IT AGAIN

Once again, our communiations capability was in the forefront of the EMA drill on June 13th at Gracedale. 8 members of our EMA group participated with the communications involved with the test evacuation of patients from the complex. Participating were KA3RBH, KA3IJL, N3FNW, N3AWT, N3FSW, WA3ENE, N5IEP and KC3CR in the communications. AMY, did it though, in the middle she changed the entire network to the EMA repeater on 145.11 and it continued without missing a beat. Sure glad it worked as well as it did. de W3PYF

IN THE GOOD 'OL SUMMER TIME

by Bob, W2CCE

This is the time of year to worry about getting zapped by lightning...both you and yours (equipment that is). A few statistics may be useful to stimulate your thinking and appreciation.

In a lightning strike the total charge transferred can run from 2 to 200 coulombs (200 coulombs is the charge stored in a one thousand microfarad capacitor at 200,000 volts-quite a few electrons).

Peak currents in a strike range from 200 to 400,000 amperes-enough to charge your battery.

The half value time duration of a stroke is short-10 to 250 microseconds and the risetime to 90 percent may be a few nanoseconds to as long as 30 microseconds.

There are at least two strokes to a flash and there may be 26 or more before the ionized channel clears.

The time between strokes in a single flash varies from a few to 100 milliseconds.

Some of these figures are hard to comprehend. Consider what happens when a 100,000 ampere current goes through a moist several ohm ground path like the trunk of the old apple tree. It is easy to see that voltages developed along the path are very high and can cause arc-overs to other conductors (and semiconductors like human beings). Standing a few feet from a tree trunk invites a side-arc which will electrocute you long before the flying pieces of wood (the trunk which exploded due to internal steam generation) can batter your body.

The frequency of the occurrence of lightning is often stated for an area of the country in terms of "lightning days per year". This number is called the "keraunic number". The higher the number the higher the exposure to lightning hazards. In the United States the keraunic number varies from almost zero (in Alaska) to about 100 in central Florida. In Africa and Central America this number can exceed 250. Contours of the keraunic number are displayed on "isokeraunic" maps. The keraunic number for this area is in the mid thirties.

(thirty plus lightning days per year). In addition there are many strikes in a storm so that we do have a substantial exposure to "fire from above".

There are many considerations involving safety of people and equipment in the presence of lightning, some of which we can look at some other time.

de Bob, W2CCE

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DLARC THESPIANS HAM IT UP

In what may be a first for the DLARC, three club members are appearing in the same community theater production. Displaying their acting skills are Bob, KU3K, Janice Pope, KA3NJR and Mike, K3NWM.

This trio is appearing in the Moravian college Theatre Company's production of "A Flea in Her Ear.". Bob and Janice are featured in the staring roles of Victor Emmanuel Chandebise and his demanding wife Raymonde Chandebise. *(editors note: So what else is new!).* Mike is featured in a supporting role as the somewhat strange Dr. Finache.

This rollicking French farce was written by George Feydeau and promises a laugh-a-minute as the characters continually misunderstand one another and jump to the most illogical conclusions. Mistaken identities, inflamed passions, personal problems and a hot-blooded Spaniard all populate this gaggle of fine-feathered-friends.

Theater going veterans are quite familiar with Bob and Jan as they have appeared in a multitude of productions over the years. Jan is also co-directing this production, and once again has the opportunity to tell Bob "where to go!". Mike is making his second appearance with the Moravian College Theatre Company and is looking forward to working with Bob and Jan.

The production opened June 29th and runs through July 9th, evening performances are at 8PM and Sunday matinees at 2:30. Ticket information may be obtained by calling the theatre box office at 861-1489. Ticket prices for the show and dinner are $23, or $8 for the show only on Saturday July 8th.

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WHERE YOUR BADGES TO ALL CLUB EVENTS

SUMMER'S HERE
by Dewi N3FNW

Finally after a long cold spring, we got some warmer weather. With it comes the usual summer activities like cutting grass, planting the tomatoes and various other chores that our YL's (or OM's) whatever fits your particular situation conjure up. Some of us try to follow the doctor's orders and get a regimen of fresh air and greens. John, W3BAL, looks forward to summer with eager anticipation of suds. He often has nightmares in which all of the breweries go on strike May 125 and don't settle until late October. Maybe Marge's prayers are finding their way into John's sub-conscious. With the summer time comes the usual problems of insets.

Judy, PZI gives her gold fish their annual baths and puts a little flea collar around their necks. Ray, TDF goes off into the woods and misses all of the fun.
Bentley, FWU carries a can of flea and tick spray to keep David from scratching.

A SERIOUS NOTE HERE, MANY TICKS CARRY VIRUSES THAT CAUSE EITHER LYMES DISEASE OR ROCKY MOUNTAIN SPOTTED FEVER. iF YOU REMOVE ONE FROM YOURSELF THAT HAS STARTED TO BURROW INTO YOUR FLEAS, SAVE IT IN A JAR FOR TESTING CASE YOU START TO EXHIBIT SYMPTOMS OF EITHER OF THOSE ILLNESSES. WHEN YOU COME IN FROM SUSPECT AREAS CHECK YOUR CLOTHING AND YOUR FLESH PROMPTLY.

A real source of fun is watching someone encounter a snake in their garden. Now most snakes are harmless to humans but play havoc on the pest population. Depending on the size of the snake, insects or rodents are a staple in their diet. It is a myth that they are slimy, if you don't believe me, catch one and pet it. Aw come on Marge, he won't hurt you.

One late hot summer night I was on the air with a friend who's shack just happens to be in a room in the rear of his garage. We were rag chewing and he let out a yell. This was a real mistake but he found out too late. it seems that a furry creature, mostly black but with distinctive white marking on it's back wandered through the open doors into his shack. His apprehension was quickly passed on the intruder who must have sensed that danger was at hand and exhibited his defense mechanism. Well, the shack us unoccupied for several days (and nights) until it was habitable once again.

Now the summer biggie, dunder boomers. A few years ago I experienced three lightening strikes within a minute and a half. It took down half a tree in front of the house, melted the top of my antenna, came through the kitchen window and nearly made me a widower, (it missed Ida's nose by a mere four inches). The third hit exploded the top of a utility pole in the rear of my property. I was in the basement and the power surge came through the ground and up through the floor. It was a weird sensation to feel my hair standing at attention. It did eliminate the need for Metamucil here at the ranch for several weeks. Goldie, the family feline has become hyper and whenever she hears an approaching storm she retreats to a haven that she found under the cellar steps. She is a better forecaster than Channel Six.

To close this I guess that its in order to say "Have a Happy Summer". Stay away from the poison ivy, don't stay out in the sun too long, don't drink to much suds (sorry John) and before yo pet that pretty black cat, make s-u-r-e it is the domestic variety.

FOR SALE

Kenwood HT-41B 1 watt 440 HT with PL and external PL switch. Excellent condition. $140. Call W2CCE, Bob at 215 967-1393.

Kenwood 1 watt 2 Meter HT with PL and external PL switch, with extra battery and charger. Contackt W3PYF, Clarence at 215 252-2109..

MUTEK 2 meter transverter. Excellent performance and construction. Like new with manual. $135.00 Call Daryl, K3EX at 215 866-4286.

Astron RS-20A Power Supply, 20 Amp rated. Used one month, $30.(Cost new- $88.00..Call K3VUM, "Doc", at 215 867-8401.

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WEAR YOUR CLUB BADGES TO ALL CLUB EVENTS!

GLOSSARY

By Van K3CP

Ima Lidd has learned a lot about ham radio from reading books and talking to his Elmer. But listening on the ham bands he has been hearing many terms pertaining to the hobby. He didn't know the meaning of many of them, so he decided to write them on a piece of paper and ask his Elmer the next time he saw him. Here is his list and what they mean.

SOLID STATE - So named because current flow is in a solid, for example germanium or silicon, rather than a vacuum as in a tube.
DIP PACKAGE - Dual In Line package. It's leads are in line and on both (dual) sides of the package.
CHIP - A DIP package, generally made of plastic or ceramic, containing a solid state chip.
I C - Integrated Circuit. A chip made up of many transistors, diodes, capacitors and resistors all connected together on one chip.
TRANSISTOR - From the words TRANSfer and resISTOR. Kind of dumb. GaAsFET - Gallium Arsenic Field Effect Transistor.
MOSFET - Metal Oxide Silicon Field Effect Transistor. PNP and NPN transistors. Pertaining to the Collector, Base and Emitter junctions.
LED - Light Emitting Diode.
LCD - Liquid Crystal Diode.
SEMICONDUCTOR - An element that is not a conductor nor an insulator. Most common types are Silicon and Germanium.
PIN diode - Positive Intrinsic Negative diode. Intrinsic means pure silicon.
ZENER DIODE - A voltage regulator semiconductor similar to gaseous VR tubes.
COLLECTOR - The element of a transistor similar to the plate of a vacuum tube.
BASE - Similar to the grid.
EMITTER - Similar to the cathode.
BIAS - The voltage applied to any element of a solid state device. It was generally reserved for the grid in tube technology.
AMTOR - AMateur Teleprinting Over Radio.
FORWARD DROP - The voltage drop across a semiconductor junction when biased in the forward direction. It is approximately 0.2 v for Germanium and 0.6 v for Silicon. Using the forward drop is a very good way to "trim" a zener diode. For example:- You are building a 13.8 volt regulated power supply and the only zener diode you have is only giving 13.2 volts. Simply add a silicon junction in the forward direction. Presto 13.8 volts out.

Elmer told Ima Lidd that he was doing the proper thing in asking questions, because knowing what the terminology was is an important step in understanding any subject. Ima was pleased.

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N3AXV, BILL, SILENT KEY

Bill Bastian, N3AXV, of Easton, formerly W3RUY became a silent key on June 6th. Although not a present member of the DLARC, Bill was one of the charter members of the Delaware Lehigh Amateur Radio Club.

Bill, a master of music with the Commodore Computer, has been ill for a long time.

Our sympathies go out to his wife Joyce, and his children. 73 Bill and SK..

de W3PYF

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A REWARD OFFERED

From W3TEB courtesy K3QBZ

A reward of 500 MICROFARADS is offered for the information leading to the arrest of HOPALONG CAPACITY. This unrectified criminal escaped from a WESTON PRIMARY CELL where he had been clamped in the IONS and awaiting the GAUSS CHAMBER. He is charged with the INDUCTION of an 18 turn COIL named MILLI HENRY, who was found CHOKED and robbed of valuable JOULES. He is armed with a CARBON ROD and is a POTENTIAL killer.

CAPACITY is also charged with driving a DC MOTOR over a DC MOTOR over a WHETSTONE BRIDGE and refusing to let the BAND PASS. If encountered he may offer SERIES RESISTANCE. The ELECTROMOTIVE FORCE spent the night searching for him in a MAGNETIC FIELD, where he had gone to EARTH. They had no success and believe he returned OHM via a SHORT CIRCUIT. He was last seen with his friend EDDY CURRENT, who was riding a KILOCYCLE and playing a HARMONIC.

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DLARC W3OK
REPEATER OPERATING PROCEDURES

Intrinsic with the repeaters is it's value when used in emergencies and for public service. A normal transmission should be as short as possible. (60 seconds or less). The timer is set for 90 seconds. The transmission should express a single thought. Pause a few seconds between transmissions to permit break-in stations to access the repeater. These two basic procedures will naturally allow for emergency or priority traffic to be recognized.

Repeated transmitter keying, unidentified transmissions, transmitting music or strange noises , etc., constitutes illegal operation and puts the station license in jeopardy. Infractions will cause the repeater to be shut down until such operations cease.

Watch your language and subject matter. The repeater covers a lot of ground and a lot of people listen to it. Try to use language you would use with someone whom you wished to impress. Restrict discussions and opinions that might be disturbing to others to simplex operations or better yet landline or eye-ball contacts.

Certain conditions, such as heavy traffic, commute times, bad weather or emergencies could lead to someone needing the repeater for traffic or a quick call home. Be particularly careful to keep transmissions short (less than 60 seconds) and open periods between transmissions longer than normal during these periods.

COMMON PRACTICES WHILE OPERATING THRU W3OK

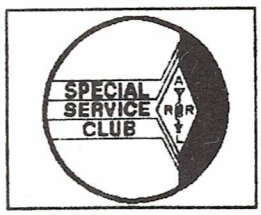
1. Identify your station when coming on and leaving a repeater and at intervals as prescribed by the FCC.

2. When accessing the repeater, state your intentions: ie. "Monitoring", "Requesting Road Information", "Emergency", etc.

3. If you are testing, say so and try to keep your tests as short as possible.

4. Do not feel you have to continue your QSO until one of you arrives at your destination. If you have exchanged your information and find words hard to come by, then it is time to QUIT!.

All DLARC Members are encouraged to welcome and willingly provide assistance to transient amateur operators. Transient is defined here as a person who does not live within the normal coverage area of our repeater and one who does not travel daily in the normal coverage area.



Explain the use of the *1 emergency operation to anyone who you feel could use it as a transient.

HOW TO USE OUR REPEATERS

When using the repeater for an autopatch, it is important that you remember a few things. **FIRST IDENTIFY YOUR STATION CALL!**

1. If using the normal access code, as shown on the back of your membership card, push the 4 digit code and then the number called without leaving up on the push to talk switch, then leave up on the push to talk button.

2 The repeater will respond with "Autopatch", at this time you should push the push to talk switch just once, with a quick "goose", and the number will be sent. If you are unsure of the number you have entered, you can allow the number to be read back to you, after the "Autopatch" call. It will repeat the number you have entered. If it is correct, push the switch again with a quick squeeze and away it will go. To hang up the call, push the pound sign (#) and then fully identify with your amateur call.

3. If you are using an Autodial number just push the star (*) and then your autodial number. When the controller answers Autodial and the number you have called, once again, push the switch to cause the call to go through.

FREQUENCIES

Most know it, but for the record, the frequency of the transmitter on 2 meters is 146.70. The receive frequency is 146.10. This pair is tied to 450 MHz band with another repeater which transmits on 444.90 and receives on 449.90. On 450 you will need PL tone 151.4.

THE BRASS BAZOOKA
by Joel, K9TBD

In order to reliably contact a station either on a repeater or simplex with my Handy-Talkie from the basement, another antenna besides the rubber duckie was necessary. A few months ago, I described making a Bazooka from RG-8 by folding back the braid for 19". Here is a 'Plumbers Delight' version of the famous Bazooka.

It turns out that RG-58 (50 Ohm) coax perfectly fits inside thin wall (.025" thickness) 1/4" copper tubing (not the refrigeration - but water type). Second, 1/4" ID plastic water tubing is a press fit on the outside of the 1/4" OD copper tubing. This is a regular vertical dipole with dipole gain (equivalent to a ground-plane - maybe a little better).

To make this Bazooka, just think of it as a regular dipole - with standard dipole connections - except that the feedline instead of being perpendicular to the elements actually comes through the center of one of the elements. I cut two 19" pieces of copper tubing, reamed each and tinned one end of each with a torch. Second, I feed the coax (I used Belden 9907 which fit nicely in the thin wall copper) through one of the tubes and soldered the shield - leaving about 1/4" of insulator for the center conductor sticking out of the end and another 1/4" of center conductor beyond that. The center conductor then was soldered to the inside of the next 19" section on the inside. The tubes were separated with about 1/4" of outer insulator of some of the coax. Each joint - top, middle, and bottom were supported by the 1/4" ID plastic tubing - which was cemented in place with 'Crazy Glue'.

The other end of the random length of coax was fitted with an RF connector (BNC or PL259 - whatever). The top end had about 3" of plastic 1/4" tubing empty which I filled with a 1/4" wooden dowel so water wouldn't get into the assembly. The plastic overlapping the wood was drilled to accept a coat hanger which was bent into a hook and then taped with electrical tape to the wood. This provided a means where I could walk up to a tree (in my case the rain gutter) and just 'hook' up the antenna.

It works fine as a cheap (price of a little coax and copper tubing and a connector) antenna which can be constructed

FILES REVISITED

There seems to be some confusion about the internal format of information and what you can send to another station through packet or other digital communications techniques. This article will point out a few of the different formats and stress that everything that you wish anyone else to read should be in pure ASCII (7 bit characters). Those characters are the printable ones.

ASCII characters are numbered from 0 to 127 in decimal. The first 32 are the control characters and are not printable. They do something to your receiving system either your printer or your screen. They contain carriage return (CR) , linefeed (LF), form feed (page up), etc. Some popular computers use extended characters numbered from 128 to 255 decimal.

What is used by your word processor and what is saved in the computers memory are codes (which may or may not be pure ASCII) that are convenient to that program. Perhaps you have seen a "print to disk" command or something like that in your word processor. Use it! That is the format that others can understand. Other word processors can always "import" pure ASCII but sometimes Word Perfect cannot be directly imported to Word Star. Go through the "print to disk" or "save as ASCII" or whatever your system calls it.

Example: I write this newsletter in speedscript which saves the characters in a binary representation that is the screen display codes. It is very efficient for the word processor, but, no one besides a Commodore system can read them again. I have a function that says print to: "printer, screen, disk". When I want to send this article to the Editor, I select "print to disk". That translates my internal text to pure ASCII which I can send over packet to the editor.

Hope this helps with transfer of textual information. Drop me a line if you have a special translation problem.

73 Joel, K9TBD



68. 7115

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ALGERIA - 7X4AN, regularly near 28,495 KHz between 2100 and 2200 UTC, offers skeds on 15 and 20. QSL via DJ2BW.

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AUSTRALIA (Northern Territory) - If you need VK8, check 14,200 KHz from 1100 UTC for VK8RG and VK8TD, both located in Alice Springs. QSL VK8RG to Rick Gale ESD/AV, Field Office M, P.O. Box 89, APO San Francisco, CA 96369. QSL VK8TD via KG6B.

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BOTSWANA - A22AP reported as alternating between 21,300 - 350 and 28,600 - 650 KHz weekdays from 1100 UTC. QSL to P.O. Box 250, Gabarone, Botswana.

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CHAD - Now thru August. TT8CW on 21,035 KHz at 1500 UTC, 14,030 KHz at 1630 UTC and aboard the various 20-meter ssb DX nets daily. QSL via F2CW.

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CYPRUS - 5B4WW is a nightly target for YLRL Award-hunters. Marian is usually on or near 14,240 KHz from 0100 UTC. An apparent Call Book error has her asking for QSLs via 5B4TI.

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JORDAN - JY9VC is a "weekend-warrior" near 28,492 KHz from 2000 UTC for the duration of the band-openings. QSL via the JY-Buro. ... JY9SR is on 21,300-305 KHz most days from 0100 UTC. QSL via W3FYT.

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MACQUARIE I. - VKØAE in "list-operations" around 14,206 KHz from 1100 UTC. Robin will sked you for a cw contact on request. QSL via VK2DEJ.

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MARKET REEF - OH2AP/OHØM is near 21,295 KHz from 1300 UTC. At about 1600 UTC he QSYs to 14,020 KHz (QSX up 5 - 10 KHz). QSL to his home CBA.

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MARSHALL IS. - KX6AZ on 14,002 - 020 KHz from 0030 UTC. QSL to her CBA.

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MAYOTTE - FH8CB on 14,230-235 KHz nightly from 0400 UTC with an outstanding signal. QSL Elio to his '89 CBA.

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MONACO - 3A2EE, between RTTY skeds on 15 and 20, can usually be found near 14,200 KHz from 1700 UTC. QSL to CBA.

RTTY by W2JGR - As more and more DXpeditioners include RTTY in their repertoires, we're sure that you, too, appreciate the opportunity to increase your DXCC-totals: i.e., JD1, KC6, OHØM, T27, T33, ZK2, ZYØ, etc. ... Here are some of the currently-active stations (on 20-meters except as otherwise indicated) at the noted UTC-times: CX4AAJ (2125) .. JA1MLV (1135) ... KG4XD (2240 - 15m) ... KL7IWC (0440) ... OK1KSL (0735) ... RB5TV (0320 - QSL: Box 188, Khmelnitskiy 280016, USSR) .. UA3TT/RF2 (Now to 25 June) ... RT4UP (2115) .. SP1DPA (1615 - 10m) ... TZ6MG (2320 - QSL: Box 2059, Lelstad, Arnhem 6800 AH, Netherlands) ... UA9CHK (1440 & on 15m 1230) UH8AMB (0930 - 10m - QSL: Box 463, Ashkabad, Turkoman, USSR) .. UZ9CWA (1610 - 15m) ... V31AV (1525) ... VK2BWF (0650) ... VK6AJW (1220) ... VY1CM (2100 - 15m) ... Y23ZA (1010) ... YO9PP (1550 - 10m) ... YT2FT (1340 - 10m) ... YV4AHL (0155) ... Z21EZ (1800) ... ZC4RF (0435 - QSL: J. S. B., BFPO 53, London GPO, England) ... ZD7BJ (2030) ... ZL3AAT (0325) ... ZS1RL (0725) ZS3GB (0845 - 15m & 1825 - 10m) .. 4X1RP (0440 - 15m) .. 9M6HF (1700 - 15m) ... 9Q5XX (2035 - 15m) ... 9X5AA (2030 - 15m) ... 9Y4GC (0020).