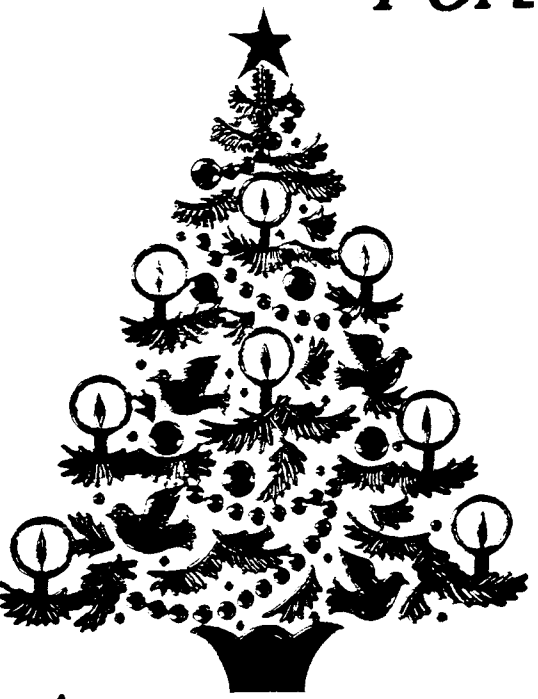
December 1993

QSX

Port Elizabeth



Merry Christmas and a happy new year

The Port Elizabeth Branch of the
South African Radio League
P O Box 10402
Linton Grange 6015

NOTICE OF MEETING

The next General Meeting of the Port Elizabeth Branch will be held on Friday, 21 January 1994, commencing at 20h00 (8pm) in the Civil Defence Centre, Westview Drive, Mill Park, Port Elizabeth.

Bill Browne ZS2BY will present a technical talk on a topic which will be announced nearer the time. Bill is well qualified in the radio and electronics field and, like his previous talks, this one should prove most interesting.

Business will be kept to a minimum, and there will be plenty of time for socialising during the refreshments interval.

See you there !

XYL'S AND YL'S AGM MEETING
TUESDAY 25 JANUARY 1994

A meeting of XYL's and YL's has been arranged by our AGM Convener, Dick ZS2RS, for Tuesday 25 January 1994 at 19:45 (7:45pm) in the Civil Defence Centre, Westview Drive, Mill Park, Port Elizabeth in order to discuss and make arrangements for the SARL Annual General Meeting to be hosted by your Branch in March 1994. A YL's AGM organising group will also be convened.

Catering for the AGM Welcoming Party on the Friday evening is to be prepared by the Branch, so we will need the help of as many XYL's and YL's as possible.

Ideas for the YL's Get-together at the AGM on the Saturday morning will also be discussed and a programme agreed upon.

The success of the AGM depends on YOU, so please ladies - your support would be very much appreciated - please attend this meeting. Should anyone require transport to get there, please contact Colin ZS2CTR on 300570. Thank you.

MINUTES OF THE GENERAL MEETING OF THE PORT ELIZABETH BRANCH OF THE SA RADIO LEAGUE HELD AT THE CIVIL DEFENCE CENTRE, MILL PARK, PE ON FRIDAY 22 OCTOBER 1993

Present:
29 members and visitors.

Apologies:
As per the attendance register.

Welcome:
The meeting opened at 20:15 with the Chairman welcoming all present, especially the members from Humansdorp and Uitenhage and our guest speaker, Steve Williams, ZS2WS.

Confirmation of Minutes:
The minutes of the previous meeting as published in QSX were taken as read and their adoption proposed by Dick ZS2RS, seconded by Owen ZS2AZ.

Finance:
The branches finances are healthy and our target for the AGM in March 1994 should be reached.

Correspondence:
Letter from HQ re the proposal that the SARL take over handling of the RA exams was read, and as the due date for a reply had past, the committee had adopted the proposal put forth and advised HQ thereof.

A letter of thanks was received from Bill ZS2ABZ for the condolences and card received on the loss of his Mom.

The late Darryl Andersson has left his amateur gear to the Branch and a letter to this effect was received by Lionel ZS2DD from Darryl's son, Peter. A letter of thanks from the Branch is to be sent to him. The Committee will make a decision regarding the fate of the gear.

General:
The Branch has been invited to hold a get-together at the farm of Roger Davis ZS1J on the other side of Plettenberg Bay. It was decided to leave this over until the New Year.

The November meeting will take the form of a social evening with a Flea market. All fleas not sold to be taken home afterwards.

A Grahamstown Repeater Work Party is to be called for shortly to mount another 5-metre section to the antenna mast.

Dick ZS2RS thanked all those who helped with JOTA this year, especially Lynn ZS2MM, Julian ZS2AAV, Owen ZS2AZ and Bill ZS2ABZ.

Motions for AGM:
Mike ZR2MBM proposed that the ZU licence call signs conform with regions for those of the ZR and ZS, ie. that the regions should from part of the call-sign and not all ZU's be 1 - this will enable one to identify the calls, etc. more accurately. The motion was seconded by Al ZS2U and agreed to by the Branch.

1994 Annual General Meeting:
Dick ZS2RS called for volunteers to help with the organising of the events visualized for the above. It will not be a hi-tech event. Mike ZS2FM has kindly offered to give a talk and demonstration on the construction and use of low-cost UHF transverters. The AGM will mainly take the form of a family and social affair. All amateurs whether local members or not are most welcome to attend the Friday evening Welcoming Party. Accomodation was discussed and will be finalised later. It is hoped to arrange a sight-seeing tour for the visitors. The PE Technikon Conference Centre will be used for the AGM. The formal dinner is at this stage also going to be held at the Technikon but another venue is hoped to be found which can house a larger number of people. Suggestions were made by the members and these will be followed up on. Iris ZS2AA has kindly agreed to be our guest of honour for the event.
Iris will be 90 years young on 27 October 1993 and was congratulated on this achievement.

Radio ZS:
A letter printed in Radio ZS about poor operating procedures and bad language over the air was noted. It was very pleasing to note that the Department of P & T did not refer to Port Elizabeth in the Eastern Cape in this regard, and members were to be complimented for this. ZS2ELL has not had his amateur licence suspended as mentioned in Radio ZS and in an HQ bulletin.

Closure:
With business completed, the meeting was closed at 21:15 and was followed by a break for tea and biscuits, and a talk on FM Stereo by Steve ZS2WS. The talk proved very interesting and became a topic of conversation for many after the meeting. Steve was thanked very much by the Chairman for his presentation.

CHRISTMAS MESSAGE FROM THE CHAIRMAN

It seems like just the other day it was our AGM and now Christmas is already upon us!

Looking back, the past year has been a fairly successful one for the Branch and we have enjoyed some very happy social events.

With inevitable changes taking place in our country next year, amateur radio can expect to see some accomodating being made as we enter the new South Africa.

For the Branch we hope that 1994 will prove to be a year of achieving great things. Hosting the SARL Annual General Meeting in March calls for a big effort on the part of members and XYL's and we look forward to receiving your spirited assistance to make this event a big sucess.

On behalf of all the Committee Members and myself, I would like to wish Council, the Staff of the Headquarters office, all members of the Branch and the members of all branches of the League and their families a very joyous and blessed Christmas and Chanukah, and may 1994 bring peace, good health, happiness, and prosperity.

To those of you who will be away visting family and friends or are lucky enough to be going on holiday in the festive season, have a super time! And those who will be travelling by road, please take care and return home safely.

73 de Colin ZS2CTR

NOVEMBER RAE RESULTS OUT !

The results of the November 1993 Radio Amateur Examination have just been announced by the Department of Posts and Telecommunications.

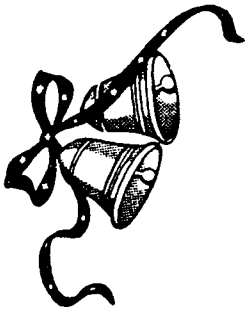
We haven't heard from everyone who wrote yet, but we must congratulate the following candidates on passing:-

Arthur Baynes of Adelaide who passed the Class-A exam (the Class-B wasn't enough for him, hi!)
John Pitout of Westering - the Class-A examination
Andre van Rooyen of Despatch - Class-A examination

Schoolgirls, Chanel Layton daughter of Sharon ZR2ABK and Martin ZS2ABN, and Megan Hart, together with Andrew Fouche, all of Uitenhage who passed the Class-B examination. Chanel did extremely well by also achieving top marks in the country for the Class-B exam. Well done !!

Congratulations to you six and good luck with the CW! We certainly trust that our hobby will bring you much pleasure!

If there are other candidates out there who passed, please will you let our Chairman know so that we can spread the good news.



POINTS TO PONDER OVER

What worked yesterday won't work today.
And tomorrow you'll be a dinosaur.

What you have to do is get in that mode of thinking where you're constantly breaking out of your old ways of thinking; breaking your old moulds, your old mind sets.

Challenge the rules, the roles, the rationales, and strategies of the game you're playing and challenge the game itself.

You have to re-think everything you do.

SIMPLE SIMON SEVEN
ADD-ON RIT CONTROL

By André Botes ZS2ACP

The Simple Simon Seven transceiver circuits published in QSX during 1991 proves to be a popular project amongst QRP enthusiasts worldwide. The complete article will appear in the January issue of QRP QUARTERLY, a popular newsletter in the U.S.A..

An improvement to the transceiver is fitting a Receive Incremental Tuning Control that makes netting much easier.

I have used this circuit in my Simple Simon transceiver as well as in the other QRP units that use varicap diode tuning.

The circuit is self explanatory and completely "add on", with no major changes to the existing circuit.

When the RIT toggle switch (I used a miniature slide switch from an old CB radio) is in the "off" position, the RIT control is disabled and the VFO operates as before the RIT circuit was added.

With the switch in the "on" position, the RIT control allows "fine tune" of the received signal.

With VR2 in the centre position the TX and RX frequencies should be the same. This is because R1 is chosen at half the value (or as close as possible) of VR2.

VR2 should be linear and larger values e.g. 5K etc. will also work as long as R1 is chosen for half the value.

The relay can be any 12V unit. Again I used a small one from an old CB set. The relay is wired to operate together with the TX/RX relay in the PTT line.

A special thanks to Phil, ZS2PP, for the Simple Simon Seven that has given so much joy to QRP enthusiasts country wide.

I regularly receive "QRP QUARTERLY" from the USA, with many technical articles, but the quality and presentation is not in the same league as those published in QSX - congratulations to all concerned and keep up the good work!

SIMPLE SIMON SEVEN
ADD-ON RIT CONTROL

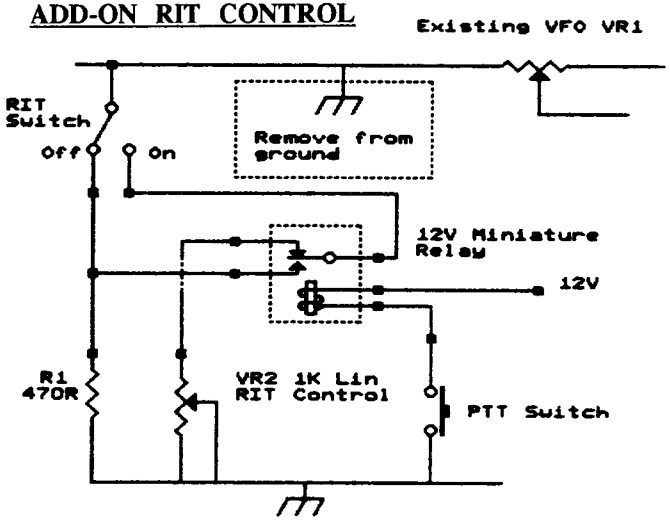


Fig. 1

COMMENT FROM ZS1RON

From : ZS1RON : 12-Dec-1993 00:52 [Doesn't Ron sleep? -Ed.]
Port Elizabeth is not called the friendly city for nothing. A few days ago, I put out a call for some assistance and, had replies from a few stations with the immediate offer of the assistance that I requested.

I am most thankfull to ZS2HB Garth, ZR2ABU Gary and ZS2SZ Vic. A slim jim from Garth is up in the air and working well and the car is safely parked, away from the destructive paws of those cute dogs, who were only trying to catch a cat and therefore not realy guilty of any malicious intentions.

Vic has a length of 300 ohm twin feedline, from which he is going to make a portable slim jim antenna for me, that will allow me to continue working the packet system on VHF from any locality that I may find myself in, before Helen and I get back to Fish Hoek and home again. Gentlemen I thank you.

To the many stations that sent me a welcome message, after they became aware of my presence and activity on ZS0NTP, also a big thank you. It felt great to be welcomed in that manner. Lastly, to old man Piet himself, a big thank you for the service that he renders and for the availability of a reliable BBS, that can be used to remain in contact with all my friends and be used to keep the grey matter from further stagnation.

Very 73 to you all.

C A White
ZS4ABS
P O Box 115
Venterstad
5990

The Editor
Q S X
Port Elizabeth

Dear Sir

It was with interest that I read your article in the QSX "CW is alive and well" stating : Morse Code has now been around for 200 years.

Please allow me to set the record straight by passing on to you the history of Morse, which, if you want to, you may use as an article in QSX.

Samuel Finley Brees Morse was born in 1791, and studied art in England during 1813 -1815. He took up portraiture and painted many prominent people of his day.

During 1830 - 1832 he studied art in Europe, specifically France and returned to America during 1832 to take up an appointment as professor of arts at the University of New York.

Whilst in Europe, he became interested in electricity and learned much about the subject, but it was on the return journey on the steamship Sully, that he overheard a conversation in which a certain Mr C T Jackson mentioned an electro magnet which he had with him. This being new to Morse at the time, he became curious to see it. At this period of time the only obvious way of signalling was by simply on/off switching of the electrical supply and Morse realised that if this could be translated into some form of code, then it would be possible to convey messages via electrical cables over a long distance.

Three years later, and with help from Professor Leonard Gail, Alfred Vail, who offered funds and facilities at his family's ironworks to make the proper instruments required, and with F O J Smith, a congressman with business and legal experience, Morse started the first tests and developments of the telegraph and code.

It was on 24 January 1838 that he first demonstrated the code comprising of letters at 10 wpm, and patented it in 1840.

It took time, however, to convince the authorities that morse-code was faster than "horseback", but finally, in 1843 he was given funds to construct the first 35km of telegraph line from Washington to Baltimore. It was on the 24th of May 1844 that morse-code became officially inaugurated and those famous first words in morsecode were sent "What hath God wrought".

This demonstration was well received and rapidly led to its widespread use. The international code as we know it today, was agreed upon in 1851.

Samuel Morse died in 1872.

P S This makes the code 155 years old.

All the best to you, also with your new year of office, and the coming AGM

CHRIS WHITE

[Many thanks for your letter and good wishes, Chris - Ed.]

QSX,
The Editor
Port Elizabeth

"Shandur"
P O Box 211
Grahamstown, 6140

07/11/1993

Dear Sir,

There has been a great deal of controversy surrounding the Sporadic-E phenomena and from what I have heard the facts as presented are in error to a large extent. There has been a great deal of speculation about sunspots and solar figures etc. but the truth of the matter is there is a simple solution. The yearly migrations of birds around and across the world cause the sporadic-E as most of the birds carry rings around their legs which reflect like radar reflectors. These birds, all sorts, travel the airways in sporadic flocks and the radio waves bounce off their legs. This leg bounce phenomena has been neglected and too many of the birds eat minerals in their diets by chance that is why this sporadic-E story is so strange. Different size birds give large bounce factors so sometimes the distance transmitted is great and when small flocks fly by short distances that clears up the mystery. Another thing associated with birds such as swallows is they congregate in flocks on telephone wires and electric overhead lines before departing across the word. It is presumed they get together for the trip, no, they are getting charged with electrons which help their direction finding and also because they are positively charged they cause sporadic-E.

This information has up to now been concealed by the Russians who used bird beak emissions to guide their submarines in the good old days.

This fact was also known to Marconi who transmitted at the precise time that flocks of wild geese were on their way to America with their charged beaks.

It is not only birds which cause this delight to the sporadic-E gang, but the large increase in air traffic gives the same bounce factor and by the way caused what is known as jet lag which results from disturbed brain wave activity. That Sir, is the story and I hope it meets with your approval.

Yours under the sporadic cloud

G.W. Taylor ZS2AAX

BAYCOM PACKET TNC UNIT

Following the acquisition of the Baycom packet TNC circuit from SAATI by Colin ZS2CTR, Neil ZS2MG assisted by Barry ZS2DT put together a printed circuit board layout. A prototype was built and worked first time. But thanks must go to Barry ZR2AAB for obtaining the initial software for the unit which sparked off interest in the whole project. Gary Laaks ZR2ABU has since built a unit and reports on the comparison between the very successful PMP TNC unit (using Ezpkt software) which we offered as a kit, and the Baycom:-

The main reason for my interest was the fact that the modem runs off the COM port and does not need an external power supply. Another plus factor is that the keyboard is active all the time whereas with Ezpkt the keyboard is only active while the squelch is closed.

THE SOFTWARE PACKAGE:
Another point of interest is that the software is in two parts. The first is a TSR (memory-resident) program that permits reception and transmission of packet signals while the user is in another program. Other stations can thus connect and leave messages which are retained in the computer's RAM. The size of the RAM is determined by the amount of buffer that the user selects in the SCC.INI file. I think it is also possible to operate a beacon while in DOS, but remote access to the drives doesn't seem possible when in this mode. A connect message of only one line is possible while in this mode but a larger connect message is possible in the "attended" mode.

When you then run up the "terminal" mode (SCC.EXE, the second part of the software), the contents of RAM are presented to the screen so that they can be scrolled and read. If someone is connected at this time it is possible to converse in the normal manner.

TNC'S AND KAM'S, ETC:
Baycom software can also be used with normal TNC's and KAM's. This should prove very interesting as there are up to 8 ports and digipeating available. You can have log files running on each individual port or just one if you prefer.

SCREEN:
The screen is split into 3 parts: the top section is the TX buffer, the middle section is the RX screen and the third is the monitor window which displays all activity on the channel - including your own. These screens can easily be adjusted (ctrl and page up/page down for the bottom split screen and ctrl home/ctrl end for the TX screen). You can eliminate the third window by extending the others and this is useful at times. The screens are set up in the SCC.INI file so that they will be displayed the way you want them. The colours can also be changed.

F1 to F8 toggle between the ports, F9 toggles between the screens (for scrollback use), and F10 brings up the monitor window in place of the RX screen.

REMOTE OPERATION:
Remote access is possible with the // commands (Ezpkt uses \\). When connected, sending // brings up the possible remote commands. The availability of the commands depends on the SCC.INI file. The operator decides what remote commands other stations can use.

The commands include CSTATUS, USERS, INFO, READ, WRITE, RPRG, WPRG and a few others. READ is to read a file to your station and WRITE does the opposite. //WRITE C:\filename.ext will open a file and everything that you transmit will be written to that file until a //WRITE OFF command is issued. One cannot overwrite an existing file with the same name - new data is appended to the end of the file. The danger here is that someone could cause havoc with any file and even the autoexec.bat!

RPRG is similar to the read command but is for Binary use only, according to the manual. I haven't had luck with it but I am beginning to think that this command is only usable with a proper TNC. WPRG is the inverse of RPRG. I wonder if two Baycom users could use these commands because I tried it with ZSONTP and the message ends in the middle of the transfer due to a possible Ctrl-Z character?
//INFO uploads the INFO.SCC file that can be anything created by the user. One can also open up the remote commands by the use of the //J function and that sends a code that the second station must match, or something of the sort! This then opens the remote commands and I presume then one can change settings. I haven't figured out how this function works yet. The manual's explanation here is rather vague. It is even possible to DIR a disk!

COMMANDS:
The commands available at the command line must run into the 60's or so. Commands available are Mycall, Ctext, Beacon, Btext, etc. Users of regular TNC's are probably familiar with these. With Ezpkt one has the option of eight macros using the Function keys 1 to 8. Baycom has as many macros as there are keys on the keyboard, excluding Alt-X and Alt-F1. Alt-X drops out of the program and Alt-F1 brings up the Help screen.
HELP:
The Help screen is most informative. One can select any item from the index and read up on it, including the Baycom program files. Personal connect messages are possible by the creation of files in the path, eg. ZS2PE.CTX, the contents of which will be uploaded every time a connect is established by a matching callsign. This option is also in the SCC.INI file and can be turned off.

The protocol takes some getting used to, but once that is achieved one can have a lot of fun with it. I have a negative of the Baycom PCB as designed by Neil ZS2MG. It works well and I had three made at Wright's Processing for a very reasonable price (12c per square cm). The components are easily obtainable in Port Elizabeth except for the TCM3105 and the crystal. (Existing PMP users wishing to convert to Baycom may have noticed that PMP uses the same main chip and crystal).

** Many thanks for that insight into the unit, Gary, it is most informative.

BRANCH MINI-PROJECT:
Vic ZS2SZ is keen to build up a couple of the units and has kindly offered to assist members interested in constructing a unit. Vic will also be able to advise on the source for the main chip, crystal and other components. Please contact him on 041-302440 for more details. Many thanks, Vic.

GRAHAMSTOWN REPEATER IMPROVED

On Thursday 16 December a group of members from Port Elizabeth comprising Trevor ZS2AE, Chris ZS2AAW, Wolf ZS2WG, Dick ZS2RS, Sandy ZS2LN with his son Gary, Vic ZS2SZ, Colin ZS2CTR, Keith ZR2AAX, Viv ZS2VM together with Phil ZS2PP from Port Alfred, John ZS2J from Bathurst, Jack ZS2SM from Grahamstown and Arthur Baynes who travelled all the way in from from Adelaide, gathered at the Grahamstown Repeater site in scorching heat and an easterly wind to mount an extra 5-metre section onto the antenna tower.

The job was started early and, with a great team effort, was completed around 3pm. Unfortunately several of the helpers got quite badly sunburnt in the process - the sun is pretty vicious at this time of the year!

Reports on the repeater signal indicate a definite improvement - so well done to all involved. Unfortunately time prevented us from elevating the digipeater antenna as well, but this will be done in the near future.

The comeradie amongst the fellows at the site was tremendous and this alone made the trip worthwhile! For many present it was an opportunity to meet Jack ZS2SM for the first time. Super meeting you, Jack!

A big thank you from the Branch to all who assisted. This is what ham radio is all about!

HAMNET NEWS

With the world-wide demand for more radio frequency spectrum, the amateur bands are continually under threat. While the rest of the world will make its influence felt in this regard, it is also up to us amateurs in South Africa to prove our worth in order to preserve our bands. The SA Radio League is doing as much as it can in this field, but as individuals we can contribute by constantly endeavouring to improve our operating and technical skills. Making ourselves available for Civil Protection is a significant way to prove our worth. It is in any amateur's interest to join Hamnet! Requests for application forms, or any queries, should be addressed to: The Regional Director: East Cape, Hamnet, PO Box 10402, Linton Grange, 6015.

Recently questionnaires were sent to Hamnet members and, from the 30-odd members, only 8 have been returned. Please chaps, return these so that we can update our records.

Monitoring during the holiday season:

Where possible, please monitor the repeaters and/or the HF frequencies of 3695, 7070, 10130 and 14282 kHz. If you receive any emergency traffic, pass this on to the Control Station ZS2DCC. If you are mobile and come across any situation you feel should be reported, pass this on to the Control station.

We wish Matt Wallace ZS2MW a somewhat belated welcome to Hamnet. Nice to have you aboard Matt.

Seasons greetings and 73,
Al ZS2U

[Article shortened for space - Ed.]

DX-PEDITION TO CISKEI

The usual annual dx-pedition to the Ciskei by Al ZS2U will take place from Friday, 14 January to Monday, 17 January 1994.

Operation will be on cw and ssb on 80, 40, 20, 15 and 10 metres. Two metres will also be tried and, with a bit of luck, some simplex contacts may be made.

In view of the political situation, this may well be the last time that S42U will be heard.

SWOP SHOP

Peter Andersson, the son of the Late Darryl ZS2CZ, is wishing to dispose of the 10-metre triangular galvanised windmill tower complete with a rotator of unknown make and condition used by his father. The control box is missing. The person acquiring the tower will be required to dismantle the tower as it is still standing. Anyone interested should please contact Mr Peter Andersson on 041-511916 during office hours.

SARL - PROPOSED 2-METRE BAND PLAN

RSA Status: Amateur Radio Exclusive
Power Limit: CW, AM, FM - 160 W INPUT
SSB - 400 W PEP
TRANSMISSION MODES ALLOWED:-

BAND SEGMENT (MHz)	BAND PLAN	RSA USEAGE: FREQUENCIES	RSA USEAGE: SERVICE ALLOCATION	NOTES
144,000				
	NARROW BAND MODES	144,000 - ,150	CW only	
		144,000 - ,025	Moonbounce	
		144,050	CW Calling	
	BEACONS	144,100	MS CW calling freq.	
	CW SSB	144,140 - ,160	FAI working	IARU auth.
		144,250	SSB calling freq.	
		144,300	MS SSB calling freq.	
144,500				
	DIGITAL MODES	144,500	SSTV calling	
		144,600	RTTY calling & COA	
	SSTV RTTY FAX PACKET	144,600 - ,675	Packet simplex	Forwding 70cm
		144,700	WEFAX relay	
144,700				
	REPEATER INPUTS R13 to R18	144,725 - ,800	Experimental repeater modes 25 kHz + 600 kHz	Other than angle modulation
144,800				
	BEACONS	144,800 - ,980	Non-channelised	Excl spacecom
145,000				
	REPEATER INPUTS R0 to R7		25 kHz steps	
		145,000 - ,175	+ 600 kHz	
	R8	145,200 - ,210	Manned Spacecom uplnk: + 600 kHz +/- doppler:	Proposed at IARU Sept 93
145,0125				
	REPEATER INPUTS R0X to R7X	145,0125 - ,1625	12,5 kHz steps + 600 kHz : Mode 12F3: (Normal Deviation)	IARU recomm. Local Area Repeaters
145,215				
	SIMPLEX P9 to P12	145,225 - ,300	25 kHz steps	All modes
		145,300	Packet simplex	
145,325				
	REPEATER OUTPUTS R13 to R18	145,325 - ,400	Experimental repeater modes 25 kHz - 600 kHz	Other than angle modulation
145,450				
	FM SIMPLEX	145,425 - ,575	25 kHz steps	**Excl 145,550**
	S19 to S23	145,500	National Call	**- space comms**
145,600				
	REPEATER OUTPUTS R0 to R7		25 kHz steps	
		145,600 - ,775	- 600 kHz	
	R8	145,800 - ,810	Manned Spacecom uplnk: - 600 kHx +/- doppler:	Proposed at IARU Sept 93
145.6125				
	REPEATER OUTPUTS R0X to R7X	145,6125 - ,7625	12,5 kHz steps - 600 kHz : Mode 12F3: (Normal Deviation)	IARU recomm. Local Area Repeaters
145,800				
	SATELLITE SERVICE	145,810 - ,999	Non-channelised	
146,000				

Port Elizabeth Branch Committee

Chairman, Editor QSX and Bandplanning:	Colin Robertson ZS2CTR	Tel 300570
Vice-Chairman, Hamnet, Training Rallies and Club Station:	Al Akers ZS2U	Tel 302983
Secretary, Tea Convener, and Uitenhage/Despatch Liaison:	Sharon Layton ZS2SL	Tel 9227958
Treasurer:	Clive Fife ZS2RT	Tel 323203
Awards, Asst Rallies and Club Station:	Peter Flynn ZR2PF	Tel 464096
Digital and Repeaters:	Wolf Gerstle ZS2WG	Tel 301510
Projects and Repeaters:	Martin Layton ZS2ABN	Tel 9227958
Social, Guest speakers, Special Events & 1994 AGM Convener:	Dick Schonborn ZS2RS	Tel 563908

Branch Bulletin News: Colin ZS2CTR, Sharon ZS2SL and Peter ZR2PF

Sunday Bulletins

Bulletins are transmitted on Sundays at 08h45 on

		Reader	2m Net
7098 kHz	:	19/12 ZS2WG	ZS2U
145-700 MHz	:	26/12 ZS2SL	ZS2CTR
145-700 MHz	:	02/01 ZS2RS	ZS2RT
		09/01 ZS2CTR	ZR2PF
		16/01 ZS2U	ZS2WG

Branch VHF & HF Services

Repeaters:

Town VHF.....145-050/650
Town UHF.....431-050/438-650
Cockscomb.....145-000/600
Grahamstown.....145-150/750
Kareedouw.....145-125/725
Lady's Slipper.....145-100/700
Uitenhage.....145-075/675
Uitenhage UHF.....431-075/438-675

Other Services:

2m Beacon (ZS2VHF CW ID).....144-910 MHz
Packet Bulletin Board (ZS0NTP).....144-675 & 14-109 MHz
Digipeater (Grahamstown ZS0GHT).....144-675 MHz
6m Link with Lady's Slipper.....51-400 MHz
6m Beacon (ZS2SIX CW ID).....50-005 MHz
Wefax Relay (Meteosat II).....145-350 MHz

☺☺☺ ***WE LIKE BEING YOUR BRANCH*** ☺☺☺