

August 2024



This Newsletter is published by the Port Elizabeth Amateur
Radio Society

Editing by Ashley Goosen ZS2AG

**QSX-PE - Newsletter for the discerning
Radio Ham**

Next PEARS Monthly Meeting will be on Tuesday,
20th August at the Italian Club.

From the Chair



The past month has flown past, and I cannot believe we are approaching the end of the year already.

Donovan, ZS2DL and his team are doing a sterling job with the RAE classes with their 8 candidates. As you may have seen on the various WhatsApp groups, recordings of the classes are being uploaded to YouTube, so please click and like, or even add a comment.

The Year end raffle is also running again for the Yaesu handheld. Simply go to www.zs2pe.co.za, click on the google form

link, fill in your details and the number of tickets you would like to purchase and click send.

An EFT of the amount must be made into the PEARS bank account. Tickets are R50 each. A reminder of the monthly meeting on Tuesday the 20th of August, 19h30 at the Italian Club. Please make an effort to attend, at the end of the day this is your club, and we would love to hear your suggestions for projects, events.

On the repeater side of things, Slipper is still going strong. However, the town repeater seems to have some interference on it, while Longmore needs a new VHF antenna. These will be attended to as soon as time allows.

A special word of thanks goes to Andrew Gray, ZS2G who kindly repaired the feeders at the Uitenhage repeater site. The repeater is back on the air and the club is most grateful.

I also wish that the many club members that participated in the SARL HF contest this month. It was so good to hear the ZS2 stations making their presence known on the air.

The club also did communication for the TransBaviaans cycle race and was a success. We thank all those made their time available to assist. The club thanks you for your contribution.

The SARL Field Day is on the 24th of September 2024. The club will be arranging an outing and all members are invited. Please watch the WhatsApp groups and bulletins for more information to come.

Finally a reminder of the club bulletins every Monday evening transmitted on the Slipper repeater at 20h00. Please listen and call in, just so we know you were listening. Also, on these bulletins there are some important announcements are made.

I wish you a good month ahead and see you at the meeting.

73

Kevern

ZR2BK

FROM THE EDITOR

Here's hoping you enjoy reading this edition of QSX. If you have an article or two that you would like published in future copies of QSX, please let me have your contribution by email to qsx.zs2ag@gmail.com.

Please do not send me QSX material on WhatsApp as I am inundated with WhatsApp messages and I will miss your material.

Thank you for your continued support of QSX and the articles you have submitted for this issue.

73,

Ashley ZS2AG

Minutes of PEARS Monthly Meeting

Held at the Italian Club on the 16th July 2024 at 19h30

Welcome:

Vice chairman Dave ZS2DH welcomed all present.

Attendance:

Approximately 17 attendees. As per Register.

Apologies:

ZR2BK, ZS2MIC, ZR2TX, ZS2IW, ZS2DK

Acceptance of previous meeting's minutes:

Proposed: ZS2GS

Seconded: ZS2AG

Matters arising:

Kareedouw mountain site visit - has a green light to re-install, same UHF links and VHF repeater as before, but in the SAPS site

Finances:

Mike has reported that all is in order. In his absence, Chris updated the meeting as regards the payments made, and Tubular cell batteries to be purchased.

General:

Fox Hunt - feedback is, it was fun. QSX articles show it all. These will be used as advertisement for the next fox hunt. We had more competitors this time, but would enjoy more participation in either the hunt, or just the braai. Everyone always enjoys these events, so please join in. ZS2GS suggested one event we start from home at an agreed time. Just for a difference.

Contests – newbies contest. ZS2 QSO Sprint Sunday this weekend, we are the sponsoring club. Also a great time to chase that WAZS certificate, as ZS2's are sought after. Dave has copies of the rules.

Saturday pm is the QRP Contest, short and sweet. ZS2G offered to make use of ZS2PE callsign.

RAE – 7 attendees. Under the new lecturers Shaun and Vaughan. Donovan moving out of this role, into a new portfolio on committee – Social events.

QSX – Ashley pleaded on aching knees for articles for the next edition. Back down to 14 pages, we can improve on that. Donovan offered to do a DX column every month. Who else can do similar columns?

ZS2AFB will look at providing Meshtastic project articles.

Events – Gert gave feedback on the national rally. 7 volunteers assisted. No major incidents. Used Slipper and Longmore for comms. Tony battled to get volunteers. August is Trans Baviaans and we need people over two weekends. Get onto the PEARS Events group to stay in touch.

Raffle tickets – are on sale. Donovan updated the meeting on the handheld prize already purchased and ready for the November draw. To date 19 tickets are sold. ZR2BK will hold onto it as Chairman. Draw will take place at the November Year-end function. If this is well supported, it could increase to an HF rig...

ZR2NT – Slipper container replacement costs using concrete slabs were quite high. So that has been canned. Neil will take measurements for the security door.

ZS2PA – mentioned the high site in Uitenhage, he offered his QTH for the repeater. Chris had mentioned that only the feeders were stolen, so would not be too difficult to get back on the air. But thanks for the offer, as site access is a problem with lack of inside contacts in the Municipality.

ZS2GS – Informed the meeting about the duplexer donation from Marius ZS2JR, to be acknowledged.

Closure:

Meeting ended at 20h05

Next meeting 20th August 2024

Donovan addressed the meeting about the road to licensed status – the RAE and all its ins and outs.

DAVE HIGGS (ZS2DH)

CHRISTOPHER SCARR (ZS2AAW)

VICE CHAIRMAN

SECRETARY

PROPAGATION CHATTER

Welcome to the solar activity and radio propagation chatter series – a 5-part series on topics related to hf propagation and solar activity.

Over the coming months we will look over the very basics of hf propagation and focus more on the skywave aspect leaving the ground wave and line of sight for your own amusement.

In part one we will take a deeper look at the Ionosphere and the layers inside the Ionosphere.

In part two we will have a look at the propagation indices explaining what the SFI, A, and K indices are and what the MUF and LUF values indicate.

Part three will be looking at solar activity including types of solar activity and how they impact on these propagation indices.

Auroral propagation (“the northern lights”) in part four promises to be interesting. We will investigate this phenomenon and see if it is possible from ZS2.

Geomagnetic storms often disrupt amateur radio activities and in the final part (five) in the series we will investigate how and why these disruptions occur, what effect they have on the propagation indices, and what can be done to mitigate their impact.

The intention of this series is not to be a complete resource, but rather to whet your appetite to explore further into an aspect that appeals to you.

So please, join me as I discover more about solar activity and radio propagation than just calling CQ on a sunny day.

Until next time, 73



N5J

Jarvis Island

Jarvis Island (formerly known as Bunker Island or Bunker's Shoal) is an uninhabited 4.5 km² (1.7 sq mi) coral island located in the South Pacific Ocean, about halfway between Hawaii and the Cook Islands. It is an unincorporated, unorganized territory of the United States, administered by the United States Fish and Wildlife Service of the United States Department of the Interior as part of the National Wildlife Refuge system. Unlike most coral atolls, the lagoon on Jarvis is wholly dry. Jarvis is one of the Central Line Islands (Palmyra is one of the Northern Line Islands) and for statistical purposes is also grouped as one of the United States Minor Outlying Islands. Jarvis Island is the largest of three U.S. equatorial possessions, which include Baker Island and Howland Island. Jarvis, in addition to being part of a different Island group from Palmyra is also separated from Palmyra by the division of territory by a treaty between the US and Kiribati signed in

2013. It deserves it's own country status.

Jarvis Island was discovered in 1821 by Captain Brown on the British ship *Eliza Francis*. Alfred G. Benson and Charles H. Judd took formal possession of the island in 1857 in the name of the American Guano Company of New York. Later that year, Commander Charles Henry Davis of the USS *St. Mary* surveyed the island and formally claimed it for the United States. Jarvis Island was mined for guano in the late 1800s. Under the Guano Act of 1856, it became a U.S. possession. Jarvis was abandoned in 1879 after many tonnes of guano had been removed. The United Kingdom annexed the island in 1889, but did not further develop the mining operations. In 1906 it was leased to the Pacific Phosphate Company of London, but again mining was not further developed. The United States reoccupied and reclaimed Jarvis in 1935 and it was placed under the jurisdiction of the Department of the Interior on May 13, 1936 (Executive Order 7368). The new colonists were evacuated from the island in 1942 following attacks by Japanese forces, and the island has remained mostly uninhabited since then. In 1957- 1958, Millersville, on the western side of the island, was occupied by scientists during the International Geophysical Year. Since June 1974, the island has been administered by the U.S. Department of the Interior Fish and Wildlife Service as part of the National Wildlife Refuge system.

The American Equatorial Islands Colonization Project was a plan initiated in 1935 by the United States Department of Commerce to place U.S. citizens on uninhabited Howland, Baker, and Jarvis Islands in the central Pacific Ocean so that weather stations and landing fields could be built for military and commercial use on air routes between Australia and California. Additionally, the U.S. government wanted to claim these remote islands to provide a check on eastern territorial expansion by Japan. The colonists, who became known as Hui Panalā'au, were primarily young Native Hawaiian men and other male students recruited from schools in Hawaii. In 1937, the project was expanded to include Canton and Enderbury the Phoenix Islands. The project ended in

early 1942 when the colonists were rescued from the islands at the

start of the War in the Pacific.

The RIB: Radio In a Box for DXpeditions

The RIB is a complete station in a box. It can be remote controlled, either locally via Ethernet or via a 900 MHz wireless link. The RIB serves two goals: speed up and simplify DXpedition set-up, and it allows remote operation from the boat in places where authorities restrict access on environmental or safety grounds, or do not allow camping or overnight stays.

The RIB was developed using funding by the Northern California DX Foundation. After testing in major contests from Wood Cay and other islands in the Bahamas it has been successfully deployed in 2023 around the Pacific from places including FO/AA7JV, VP6D and E51D. Over 200,000 QSOs have taken place so far with 60%





The St Paul Island CY9C DXpedition is scheduled for August 26—September 5, 2024. The team will use two helicopters and a boat to transport the operators and all of the gear to the Northeast Island of St Paul. There are ten experienced DXpeditioners and contesters on the 2024 team.

CY9C

St Paul Island



The St Paul Island CY9C DXpedition is scheduled for August 26—September 5, 2024. The team will use two helicopters and a boat to transport the operators and all of the gear to the Northeast Island of St Paul. There are ten experienced DXpeditioners and contesters on the 2024 team.

All bands from 160-6 meters are planned. Antennas will include Yagis on 6-20 meters, with elevated sloping dipoles and verticals on the low bands. CW will be emphasized but with a good mix of SSB, FT8 and RTTY. The team will also be on SAT and EME.

This is a "tent and generator" DXpedition. The team will use seven Honda EU-2200i generators along with North Face sleeping tents, two large operations tents and a MESS tent.

This DXpedition will take place from the small, rocky and windswept Northeast Island. There are no trees on this island. DXpeditions to the Northeast Island are limited to a narrow window in the summer. The team is grateful to the Canadian Department of Fisheries and Oceans for granting our team permission for this DXpedition.

The CY9C DXpedition team is extremely grateful for a large grant from the Northern California DX Foundation (NCDXF) to help sponsor this DXpedition.

And remember that St. Paul counts for **POTA (CA-0122), Lighthouse (STP-002) and IOTA (NA-094)** awards.

The above with acknowledgement to the individual websites of the expeditions and dx-world.net

Republished in the interest of promoting the expeditions and HF DX'ing.

73 Until Next month.

YEAR END RAFFLE

**ENTER TO WIN
A YAESU FT-4X**



87 855 5669 4663

**TICKET AT
R50**



**GO TO WWW.ZS2PE.CO.ZA AND CLICK ON THE LINK
TO BOOK YOUR TICKETS. EFT INTO THE CLUB'S BANK
ACCOUNT AND USE YOUR CALL SIGN
AND RAFFLE AS REFERENCE.**

**THE DRAW IS PLANNED TO TAKE PLACE AT THE
END OF YEAR FUNCTION IN NOVEMBER.**

Why not use Linux in your Shack?

Paul ZS2PS

Migrating from Windows to Linux for ham radio operations can seem daunting due to the wide array of software available for different purposes. However, Linux offers robust, reliable, and often free alternatives to Windows-based ham radio software. This article will explore the most appropriate software for various aspects of ham radio, including logging, digital modes, rig control, satellite tracking, and software-defined radio (SDR).

1. Logging Software

CQRLOG

CQRLOG is one of the most popular logging programs for Linux. It offers a comprehensive set of features, including QSO logging, DX cluster support, LoTW (Logbook of The World) and eQSL synchronization, and extensive support for various contests and awards. CQRLOG is designed specifically for Linux and utilizes a MySQL database for storing logs, ensuring robustness and reliability.

TLF

For those who are into contest logging, TLF is a great choice. It is a text-based logging program, which can be intimidating at first, but it offers powerful features for contest operations. TLF supports CW and SSB contests, handles real-time scoring, and integrates with hamlib for rig control.

2. Digital Modes

Fldigi

Fldigi is a versatile and widely-used digital mode software. It supports a broad range of modes including PSK31, RTTY, CW, and more. Fldigi is known for its robust performance and flexibility. It can be integrated with other software like CQRLOG for

logging digital QSOs. Additionally, it supports macros, making repetitive tasks easier to manage.

WSJT-X

WSJT-X is essential for operators interested in weak-signal modes like FT8, FT4, and JT65. These modes are incredibly popular due to their ability to make contacts under poor propagation conditions. WSJT-X provides an easy-to-use interface and robust decoding capabilities, making it a must-have for any serious digital mode operator.

3. Rig Control

Hamlib

Hamlib is a software library and set of utilities for controlling radios and other shack hardware. It provides a standardized way to communicate with various rigs, allowing you to integrate your transceiver with different software applications. Many Linux ham radio applications use Hamlib for rig control, including CQRLOG, Fldigi, and TLF.

FLRig

FLRig is another excellent option for rig control, especially if you are already using Fldigi. It provides a comprehensive graphical interface for controlling your radio's features and integrates seamlessly with Fldigi, allowing you to control frequency, mode, and other settings from within the same application.

4. Satellite Tracking

Gpredict

For those interested in satellite communications, Gpredict is an excellent choice. It offers real-time tracking of satellites, prediction of passes, and Doppler shift calculations. Gpredict's graphical interface is intuitive, displaying satellite orbits, footprints, and relevant data such as AOS (Acquisition of Signal) and LOS (Loss of Signal). It can also interface with Hamlib for controlling rotators and radios.

5. Software-Defined Radio (SDR)

GNU Radio

GNU Radio is a powerful toolkit for building and analyzing software-defined radio systems. It provides a comprehensive suite of tools for signal processing, including a graphical interface called GNU Radio Companion, which allows you to design signal processing flows visually. GNU Radio supports a wide range of SDR hardware, making it an essential tool for experimenting with SDR.

CubicSDR

CubicSDR is a user-friendly application for interacting with SDR hardware. It supports popular devices like the RTL-SDR and provides a straightforward graphical interface for tuning, demodulating, and visualizing signals. CubicSDR is ideal for those new to SDR as well as experienced operators who need a reliable and easy-to-use application.

6. Additional Tools

QSSTV

For amateur operators interested in slow-scan television (SSTV), QSSTV is a fantastic option. It supports sending and receiving SSTV images and integrates well with sound card interfaces. QSSTV offers a user-friendly interface, making it easy to get started with SSTV.

Xastir

For APRS (Automatic Packet Reporting System) enthusiasts, Xastir is a comprehensive solution. It supports a wide range of map formats, provides real-time tracking and messaging capabilities, and integrates with GPS devices and TNCs (Terminal Node Controllers). Xastir is a powerful tool for both casual and advanced APRS users.

7. Integration and Scripting

One of the key advantages of using Linux is the ease with which you can integrate different tools using scripts and automation. Shell scripting and tools like Python can help you automate tasks, parse log files, and even create custom workflows tailored to your specific needs. Many ham radio applications on Linux offer command-line interfaces or APIs, making them ideal for automation.

Example Workflow

A typical workflow might involve using Gpredict for satellite tracking, FLRig for rig control, and Fldigi for decoding digital signals. A script could automate the setup of your rig based on satellite pass predictions from Gpredict, ensuring you are always ready for the next pass without manual intervention.

Conclusion

Migrating from Windows to Linux for ham radio operations opens up a world of possibilities with powerful, flexible, and free software. While the initial transition may involve a learning curve, the long-term benefits of stability, customization, and integration make it worthwhile. CQRLOG and TLF offer excellent logging solutions, Fldigi and WSJT-X cover a wide range of digital modes, and tools like Hamlib, FLRig, and Gpredict provide robust rig control and satellite tracking capabilities. For those venturing into SDR, GNU Radio and CubicSDR are indispensable. With the right software and a bit of scripting, Linux can become a powerful platform for any ham radio operator.

TRANSBAVIAANS 2024

Once again this year PEARS provided communication for both races of the Transbaviaans. The mountain bike race starts in Willowmore and ends in Jeffreys Bay, first cycling through the Baviaanskloof farming community, then entering the reserve and out the other gate and then through farmlands to Jeffreys Bay. The cycle race is 240km long and 24 hours, which means cycling through the Baviaans Mega Reserve in the dark for many. As no reliable communication exists in the kloof, PEARS provides the service at four checkpoints, with the control station.

The Longmore VHF repeater is used with the UHF Baviaans Link enabled and receives transmission from a temporary UHF repeater that was erected at Bergplaas, Checkpoint. This repeater is crucial for getting comms down to Checkpoint 3, Smitskraal.

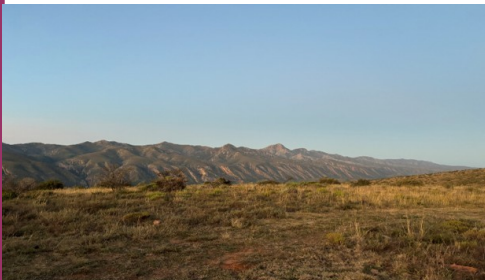
See Bergplaas picture on cover page.

A slight change this year was to erect a cross band repeater on the mountain above Zandvlakte, Checkpoint 2 where a MTN solar site is situated. This crossband tied into the VHF repeater of Longmore and gave UHF comms to Checkpoint 2. Note, from the crossband position, it is 90km to Longmore!

There was a slight issue with the crossband repeater receiving noise on the input side from Longmore, but this will be resolved for next year's event.

Many club members helped out for the two weekends, and the club is grateful for their contribution.

Below are some pictures of the crossband repeater, the MTN site where it was erected as well as the view!





HELP!

I have a request from Chris ZS6CPA, who is trying to confirm his WAZS 1000 by September, 2024. However a large number have not been confirmed. The list of Radio Hams that he is asking to respond are: ZS2JG, ZS2LB, ZS2OD, ZS2PTY, ZS2S, ZS2SJE, ZS2SS, ZS2ABB, ZS2AHF, ZS2B, ZS2BO, ZS2CM, ZS2CE, ZS2CX, ZS2IN, ZS2J, ZR2BJ.

His cell number is 0825435021

Calling Back The Past!

NATIONAL FIELD DAY CONTEST **PREPERATION**

With the upcoming SARL National Field day contest in mind, it is interesting to remember how the Club went about erecting a contest station in the past. This specific station was erected on a hill in Theescombe, sometime during the 1980's. From Clive ZS2RT



Wolfgang Gerstle - ZS2WG operating in the station's caravan.

ZS2QSO Party 2024

Position Call Contacts Final Score

1 ZS4JAN Jan Botha 94	14 ZS6CRS Gerhard Gericke 34
2 ZS5DCF Deon Fraser 75	15 ZS6JLK Jaco-Louis Kruger 29
3 ZS3TG Gerhard Coetzee 73	16 ZS6MDX Mark Walker 27
4 ZS2EC Theunis Potgieter 66	17 ZS5BSR Louise Larsen 25
5 ZS6MAR Mario Beltrame 61	17 ZS1XB Emil Bohme 25
6 ZS5WFD Keith Lowes 60	18 ZS1ZAN Nico Van Rensburg 23
7 ZU3LM Lillian Jones 57	18 ZR6GRT Gert Du Plessis 23
8 ZR2BK Kevern Burger 54	19 ZS3LB Leon Botha 20
8 ZS6BOS Kobus Boshoff 54	20 ZS6HKL Herman Kleynhans 19
9 ZS6DDT Dave Du Toit 50	21 ZS6JOH Johannes Muller 16
9 ZS6HI Keith Barker 50	22 ZS3HC Henk Coetzer 10
10 ZS3WL Woody Collett 49	23 ZS6PEG Mat Erasmus 8
11 ZS2PE PEARS opr ZS2G 45	24 V51MJ Martin James 3
12 ZS6FY Phillip Fischer 43	
13 ZS2PA Andrew Prideaux 41	28 logs submitted

Birthdays and Anniversaries

Birthdays

August

26 Nicole Cummings ZU2NX

September

02 Johannes (Joe) Geldenhuys ZS2JO

05 André Ollphent André

09 Andrew Bouwer ZS2AFB

10 Andre van Deventer ZS2BK

Spouse Birthdays

August

24 Daschell Geldenhuys (Joe) ZS2JO

29 Teresa Joubert Tim ZS2X

September

02 Renette van Deventer Andre ZS2BK

09 Merle Thomas ZR2MP Neil ZR2NT

11 Jane Fife Clive ZS2RT

12 Dixeeta Gajjar Tejas ZS2TG

12 Jo Akers ZS2W AI ZS2U

Anniversaries

August

24 David Beverley Higgs ZS2DH

September

02 Allan Joan ZR2ABA Bowles ZS2BO

11 Neville Sandra Bowden ZS2N

14 Paul Daphne Galpin ZS2PG

DISCLAIMER

Please note:

The Editor, nor any PEARS club member shall be held liable for errors and/or omissions in any article and/or drawing contained in this newsletter. Furthermore, any view expressed is not necessarily that of the Editor, any committee member or other members of the Club. The material contained in this newsletter is not meant to defame, purge, humiliate and/or hurt someone's person or feelings.

If copy is unintentionally infringed, we apologise. The newsletter is published as a free service to Amateur Radio Operators and friends.

Sunday SARL and Monday Evening PEARS Bulletins

PEARS provides a local reading of the SARL bulletin every Sunday morning at 8:15 in Afrikaans read by Kevern ZR2BK and at 8:30 in English read by Rory ZS2BL, transmitted through the Lady's Slipper Repeater on 145.700MHz.

PEARS Bulletins are transmitted on Monday evenings at 20H00 through the Lady's Slipper repeater 145.700MHz 88.5Hz Narrow, which is coupled to the Longmore Repeater 145.625 MHz 88.5Hz Narrow.

Bulletin Roster

19-Aug	Chris	ZS2AAW
26-Aug	Mike	ZS2MIC
02-Sep	Donovan	ZS2DL
09-Sep	Ashley	ZS2AG
16-Sep	Paul	ZS2PS
23-Sep	Vaughan	ZS2VR
30-Sep	Rory	ZS2BL
07-Oct	Kevern	ZR2BK
14-Oct	Dave	ZS2DH

<http://www.zs2pe.co.za/bulletins.html>

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Our 2024/2025 PEARS Committee

These committee members can be reached as a group by sending email to [committee\[at\]peham.co.za](mailto:committee[at]peham.co.za)

PORTFOLIO	NAME	CALLSIGN	EMAIL	CONTACT No
Chairman, Technical support & maintenance	Kevern Burger	ZR2BK	k.burger[at]stfrancislinks.com	083 401 9587
Vice Chairman, SARL liaison, Hammies, Youth, Contest Scoring	Dave Higgs	ZS2DH	om[at]zs2dh.co.za	082 387 5657
Treasurer	Michael Steenkamp	ZS2MIC	zs2mic[at]igen.co.za	082 523 5677
Secretary, Repeaters, QSX emailing, club database	Christopher Scarr	ZS2AAW	christopher[at]peham.co.za	082 925 6367
RAE Training	Donovan van Loggerenberg	ZS2DL	zs2dl[at]hamradio.co.za	082 852 4885
Technical/repeaters, Search and Rescue & Emergency comms	Glen Cummings	ZS2GV	glenvanessa[at]gmail.com	082 411 2743
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Public relations, special events displays, Scouts interface, "Jamtin"	Paul Schoeman	ZS2PS	paul.costcutters[at]gmail.com	083 582 9660
RAE Training	Vaughan Rizzo	ZS2VR	vaughan[at]netaddress.co.za	082 882 6555

CO-OPTED POSTS

PORTFOLIO	NAME	CALLSIGN	EMAIL	CONTACT No
Contest Liaison Officer	Theunis Potgieter	ZS2EC	zs2ec01[at]gmail.com	064 901 8079
Events & Rally organising	Tony Allen	ZR2TX	tony.zr2tx[at]gmail.com	082 956 2920
Website renewal and updates	Graham Pearson	ZS2GKP	gpearson[at]blsmedical.co.za	082 321 4798

(Please note: The "@" sign has been replaced with "[at]" in the above addresses to try to prevent spamming)

PEARS' VHF/UHF, Packet & Other Services

Local Repeaters: These repeaters form a separate sub-net in the PE - Uitenhage - Despatch area.

Town VHF	Longmore	Uitenhage	Town UHF	<---- IRLP available on this subnet
145.050/650 88.5Hz, Narrow 12.5k	145.025/625 88.5Hz, Narrow 12.5k	145.075/675 Wide 25k	431.050/438.650 Wide 25k	
Cockscomb 431.000/438,600 Add 88.5Hz for squ tail	Viewlands 431.075/438.675 Add 88.5Hz for squ tail	<---- These form linking hubs for events, hence no tail	DMR 430.675/438.275 QTH: ZS2VA	D-Star 145.175/775 QTH: ZS2N

Cape Linked System Repeaters:

These form the PEARS long-range 2-metre repeater system, in conjunction with the Border, Southern Cape and WCRWG systems. See www.zs2pe.co.za/Repeaters/repeaters.htm for more details.

Lady's Slipper	Grahamstown	Cradock	Noupoort (link only)
145,100/700 88.5Hz, Narrow 12.5k	145,150/750 Wide 25k	145,050/650 Wide 25k	438,750 / 438,675 Wide 25k
Colesberg 431,075/438,675 Wide 25k	Kareedouw 145,125/725	Plett 145,175/775	Brenton 145,075/675

APRS/Packet network:

ZSONTP Node	ZS0KDK APRS Digi	ZS0KDB APRS Digi
Lady's Slipper 434,800 1200bd 439.850 9600 bd	Mount Road 434,800 1200bd	Longmore 434,800 1200bd

VHF Beacon: 50,007 MHz FSK – ZS2X, 25 Watts into 2 element Yagi beaming north.

Banking details (for subs & donations): NEDBANK SAVINGS ACCOUNT No. 221 252 7594, Bank code 121217, A/C name: Port Elizabeth Amateur Radio Society. **Please use call signs as a reference.**