



WATTS 2025-03

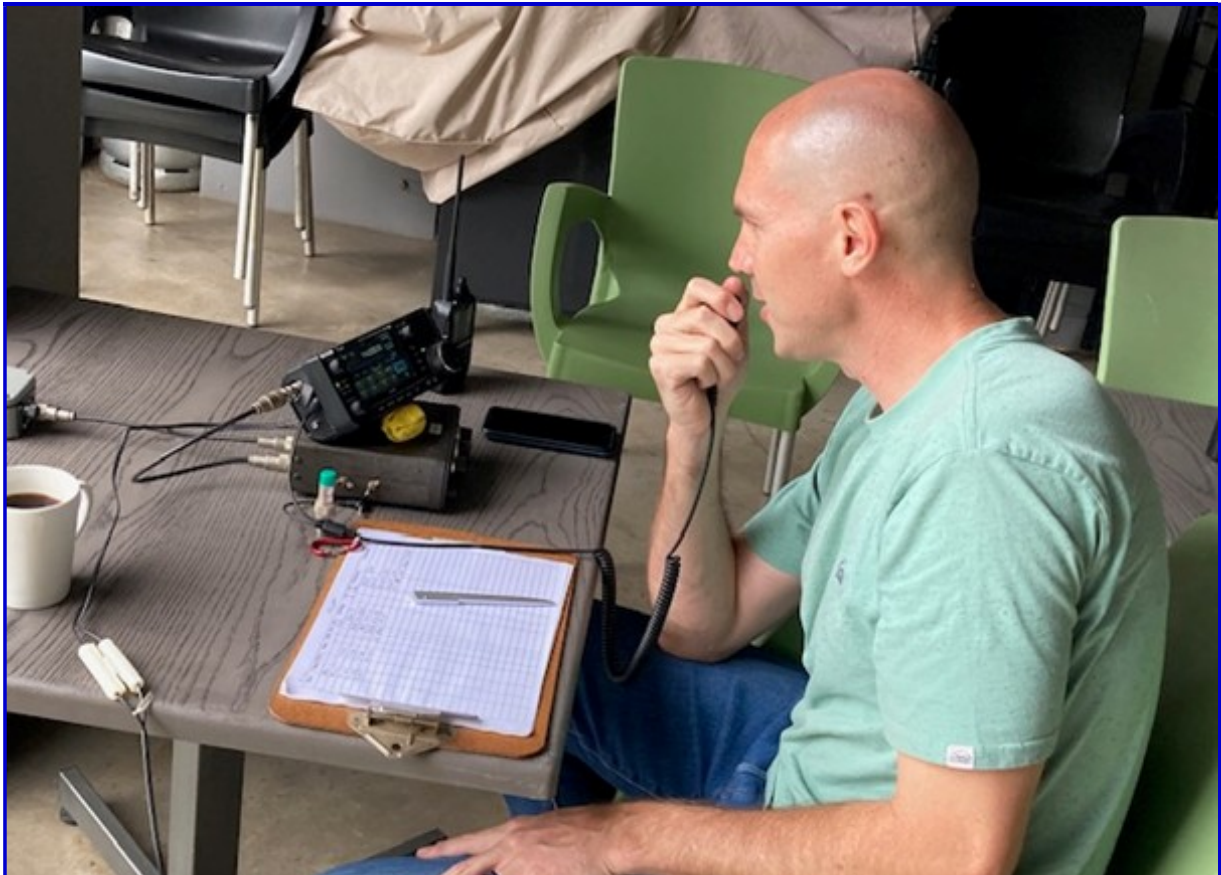
Year 95 + 03

Monthly Newsletter of the Pretoria Amateur Radio Club
Maandelikse Nuusbrief van die Pretoria Amateur Radio Klub

✉ PARC, PO Box 73696, Lynnwood Ridge 0040, RSA
<http://www.parc.org.za> zs6pta@zs6pta.org.za



Bulletins : 145.725 MHz : Sundays from 08h45 / Sondag vanaf 08h45
Relays: 1.840, 3.700, 7.066, 10.135, 14.235, 51.400, 438.825, 1297 MHz
and Echolink. Activated frequencies are announced prior to bulletins
Swopshop : 2m and 7.066 MHz live on-air after bulletins
Bulletin repeats on Mondays / herhalings op Maandae : 2m 19h45



Ryan Gibson ZS6GGR and Vernon Fryer ZS6AIG attempted the QRP Contest using only 1 Watt. More on pages 8-9.

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PARC Committee Meeting /
PARK Komitee Vergadering

**The next Meeting for the
2025 PARC Committee will
take place by means of
Teams during March 2025. A
date will be confirmed.**

Birthdays and Wedding Anniversaries / Verjaarsdae en Huweliks Herdenkings

Member's Birthdays March 2025 / Lede Verjaarsdae Maart 2025

01 Ben Greyling ZS6YVC
08 Trev Thomsen Z21GX
14 Uys Classen ZS6UYS
22 Julian Bouttell ZS6AOU (90)

22 Ivan Jancuska (Hon Mem) ZS6CCW
24 Marike Roux ZS6MRX
27 Sarel Stapelberg ZS6EK

Spouse's March 2025 / Maart 2025

08 Vasthi, gade van Daniel du Toit ZR6DP
12 Rita, gade van Vitor Gouveia ZS6VG
15 Alice, gade van Charlie Pretorius LISTENER
16 Alta, gade van Brian Allchin ZS1ABW
18 Joydene, gade van Albert Schreuder ZS6SE
20 Mary, spouse of Nico Michael ZS6BVR
24 Marike, gade van Andre Roux ZS6ARX
30 Madelaine, gade van George Ellis ZS6TA
31 Annatjie, gade van Pieter Fourie ZS6CN

Wedding Anniversaries March 2025 / Huweliks Herdenkings Maart 2025

02 Corlia ZS6CHS en Pierre ZS6PS Smit
25 Irene ZS6IEA en Pieter ZS6PAM Myburgh
26 Sharmaine en Louis de Wet ZS6SK
27 Fiona en Etienne Naude ZS6EFN
30 Vasthi en Daniel du Toit ZR6DP
31 Liezel en Sybrand Van der Spuy ZS6SY

Member's Birthdays April 2025 / Lede Verjaarsdae April 2025

07 Henk Badenhorst ZS6BA
10 Nick Louw ZS6NWL
16 Andre Roux ZS6ARX

19 Etienne Naude ZS6EFN
24 Jaco Steyn ZSL6119
28 Elias Tibane ZR6TT

Spouse's April 2025 / Gades April 2025

10 Joey, spouse of Graham Reid ZS6GJR
15 Tali, gade van Dylan Foord ZS6TDK
15 Joanne, spouse of Evan Seligmann ZS6ELI
16 Andre ZS6ARX, gade van Marike Roux ZS6MRX
16 Tania, gade van Andries Lombard ZS6ABL
18 Sarah, spouse of Elias Tibane ZR6TT
27 Ronel, gade van Emil Bohme ZS6EGB
29 Heather, spouse of Vincent Harrison ZS6BTY

Wedding Anniversaries April 2024 / Huweliks Herdenkings April 2025

05 Esta en John Olivier ZR6GV
07 Elize en Mervyn Schmidt ZS6MES
07 Jacqueline en Jacques Coetzee ZS6RFJ
10 Joanne and Evan Seligmann ZS6ELI
12 Lukas en Maria Schröder ZS6SLR
12 Marita en Louis Coetzee ZS6GLC
30 Joey and Graham Reid ZS6GJR

PARC Committee Members : 2025 / PARK Komiteede : 2025

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Graham Reid ZS6GJR	Chairman, Treasurer, Website, Rallies	greid@wol.co.za	012-667-2720	083-701-0511
Johan de Bruyn ZS6JHB	Vice Chair, Repeaters & Membership	zs6jhb@gmail.com	012-803-9418	079-333-4107
Irene Myburgh ZS6IEA	Secretary, SARL Bulletins & Social	irene.myburgh@outlook.com	012-304-5109	082-462-6001
Hendri Ehlers ZS6HFE	Webmaster, Repeaters, ICASA Liaison	hendri@lantis.co.za	012-348-4858	083-460-5586
Louis de Wet ZS6SK	Watts, SARL Liaison, PARC Bulletins	louis.zs6sk@gmail.com	012-349-1044	072-140-9893

CO-OPTED MEMBERS / GE-KOÖPTEERDE LEDE

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Alméro Du Pisani ZS6LDP (Hon.)	Flea-markets, SARL Bulletins	almerodps@gmail.com	012-420-3779	083-938-8955
John Minter ZS6LED	RAE Training, Technical	john.minter.za@gmail.com	012-349-0019	083-291-5422
Pieter Myburgh ZS6PAM	Repeaters	wooden@mweb.co.za		076-140-7562
Pierre Holtzhausen ZS6PJH	Contests	zs6pjh@gmail.com		082-575-5799

Joys and Sorrows / Lief en Leed

Johan de Bruyn ZS6JHB is reeds vir 'n geruime tyd in die hospital vir toetse en behandeling. Ons wens Johan alle sterkte toe en 'n spoedige ontslaan van die hospitaal.

Andre Coetzee ZS6GCA was vir enkele weke ge-hospitaliseer vir toetse en behandeling vir 'n vergrote hart. Andre is onlangs ontslaan en sterk tans tuis aan.

PARC Membership Fees 2025 / PARK Ledegelde 2025

PARC ANNUAL CLUB FEES: PARK JAARLIKSE LEDEGELDE

Bank	First National Bank	Ordinary Members / Gewone Lede : R200 Spouses and Pensioners : R100	Your call sign must appear as statement text!
Branch Code	25 20 45		
Account No	546 000 426 73		
Please remit your subs in time to our Treasurer, or pay per transfer into the PARC account Betaal asb. u ledegelde betyds aan ons Tesourier, of betaal per oorplasing in die PARC rekening			

Please Note : If your Club fees are not paid up to date, birthday details cannot be displayed in Watts

PARC Sunday Bulletins / PARK Sondag Bulletins

PARC Bulletins are presented on Sunday mornings at approximately 08h45, after the SARL Bulletins in English and Afrikaans, from 08h15. The Bulletin Presenters for the following two months are presented below. Please do contact the applicable presenter beforehand if you wish to contribute to the Bulletin. PARC Bulletins are broadcast on the 2-meter repeater on 145.725 MHz, and 70 cm on 438.825 and 439.025 MHz. Relays are done on 7.060 MHz by Pierre ZS6PS and Corlia ZS6CHS Smit and on Echolink by Johan Lehman ZS6JPL. A re-broadcast of the Bulletin is done the following Monday evening at 19h45 by Louis de Wet ZS6SK.

PARK Bulletins word op Sondagoggende aangebied om 08h45, na die SARL Bulletins in Engels en Afrikaans, vanaf 08h15. The Bulletin aanbieders vir die volgende twee maande word onder aangedui. Kontak gerus die toepaslike Bulletin leser indien u 'n bydrae tot die Bulletin wil maak. PARK Bulletins word uitgesaai op die 2-meter herhaler op 145.725 MHz, en 70cm op 438.825 en 439.025 MHz. Herleidings word gedoen op 7.060 MHz deur Pierre ZS6PS en Corlia ZS6CHS Smit, en op Echolink deur Johan Lehman ZS6JPL. 'n Heruitsending van die Bulletin geskied die opvolgende Maandag aand om 19h45, en word behartig deur Louis de Wet ZS6SK.

PARC Bulletin Presenters Schedule / PARK Bulletin Aanbieders Skedule

PARC Bulletin Presenters: March 2025 - May 2025			
Date	Presenter	Date	Presenter
02 March 2025	Johan de Bruyn ZS6JHB	13 April 2025	Johan de Bruyn ZS6JHB
09 March 2025	Alméro Du Pisani ZS6LDP	20 April 2025	Alméro Du Pisani ZS6LDP
16 March 2025	Louis de Wet ZS6SK	27 April 2025	Louis de Wet ZS6SK
22 March 2025	Johan de Bruyn ZS6JHB	04 May 2025	Johan de Bruyn ZS6JHB
29 March 2025	Alméro Du Pisani ZS6LDP	11 May 2025	Alméro Du Pisani ZS6LDP
6 April 2025	Louis de Wet ZS6SK	18 May 2025	Louis de Wet ZS6SK

PARC BOOT SALES FOR 2025 PARK SNUFFELMARKTE VIR 2025

**5 April; 17 May; 5 July; 6 December
5 April; 17 Mei; 5 Julie; 6 Desember**

CONTACT PERSON: Alméro Du Pisani (T) 083-938-8955 (E) almerodps@gmail.com

Diary of Contests & Events / Dagboek van Kompetisies en Gebeure

Contests and Events - March 2025 / Kompetisies en Gebeure - Maart 2025 (UTC Times)	
01 - 02	ARRL International DX Contest, SSB: 0000Z - 2400Z
01 - 02	Open Ukraine RTTY Championship: 1800Z - 1359Z
02	SARL Hamnet 40m Simulated Emergency Contest: 1200Z - 1400Z
03	RSGB 80m Club Championship, Data: 2000Z - 2130Z
04	Worldwide Sideband Activity Contest: 0100Z - 0159Z
05	UKEICC 80m Contest: 2000Z - 2100Z
06	NRAU 10m Activity Contest: 1800Z - 1900Z (CW); 1900Z - 2000Z (SSB); 2000Z - 2100Z (FM); 2100Z - 2200Z (Digital)
08 - 09	SARL Field Day Contest: 0800Z - 1000Z
08 - 09	SARL VHF/UHF FM Contest: 0800Z - 1000Z
08 - 09	South America 10 Meter Contest: 1200Z - 1200Z
08	Digital QSO Party, SSB: 1200Z - 1700Z (20m - 10m)
09	Digital QSO Party, SSB: 0700Z - 0900Z (80m); 0900Z - 1100Z (40m)
09	FIRAC HF Contest: 0700Z - 1700Z
11	Worldwide Sideband Activity Contest: 0100Z - 0159Z
12	RSGB 80m Club Championship, CW: 2000Z - 2130Z
15 - 17	BARTG HF RTTY Contest: 0200Z - 0159Z
18	Worldwide Sideband Activity Contest: 0100Z - 0159Z
19	IRTS 80m Counties Contest: 2000Z - 2100Z
22 - 23	Africa All Mode International DX Contest: 1200Z - 1200Z
23	North American SSB Sprint Contest: 0000Z - 0400Z
25	Worldwide Sideband Activity Contest: 0100Z - 0159Z
26	UKEICC 80m Contest: 2000Z - 2100Z
27	RSGB 80m Club Championship, SSB: 2000Z - 2130Z
29 - 30	CQ WW WPX Contest, SSB: 0000Z - 2359Z
Contests and Events - April 2025 / Kompetisies en Gebeure - April 2025 (UTC Times)	
01	Worldwide Sideband Activity Contest: 0100Z - 0159Z: Also 08/4, 15/4, 22/4, 29/4
03	NRAU 10m Activity Contest: 1800Z - 1900Z (CW); 1900Z - 2000Z (SSB); 2000Z - 2100Z (FM); 2100Z - 2200Z (Digital)
03	SARL 80m QSO Party: 1700Z - 2000Z
05	Pretoria Amateur Radio Club Boot sale: 09h00 - 13h00
05 - 06	SP DX Contest: 1500Z - 1500Z
07	RSGB 80m Club Championship, CW: 1900Z - 2030Z
12 - 13	JIDX CW Contest: 0700Z - 1300Z
12 - 13	Yuri Gagarin International DX Contest: 2100Z - 2059Z
14	Hungarian Straight Key Contest: 1500Z - 1600Z
16	RSGB 80m Club Championship, SSB: 1900Z - 2030Z
18	World Amateur Radio Day: http://www.arrl.org/world-amateur-radio-day
18 - 19	Worldwide Holyland Contest: 2100Z - 2059Z
19 - 20	Worked all Provinces of China DX Contest: 0600Z - 0559Z
20	International Vintage Contest, HF: 0700Z - 1100Z and 1500Z - 1900Z
24	World Corrosion Awareness Day: https://www.corrosioninstitute.org.za/
24	RSGB 80m Club Championship, Data: 1900Z - 2030Z
26	International Marconi Day: https://www.daysoftheyear.com/days/international-marconi-day/
27	International Morse Code Day: https://nationaltoday.com/morse-code-day/
26 - 27	10-10 International Spring Contest, Digital: 0001Z - 2359Z
26 - 27	Helvetia Contest: 1300Z - 1259Z
28	RSGB FT4 Contest: 1900Z - 2000Z: 80,40,20, 15 & 10m: https://www.rsgbcc.org/hf/rules/2024/r80m_ft4.shtml
30	UKEICC 80m Contest: 2000Z - 2100Z
<p>The Pretoria Amateur Radio Club does not accept responsibility for the accuracy of contest details listed above. For verification and more information, please visit the SARL website, www.sarl.org.za, as well as the WA7BNM international contest calendar at the following website: http://hornucopia.com</p>	



PARC-95



PRETORIA SECTION S.A.R.L. 1929
RH Borcherds (listener), ZS6V "BJ" Nyenhuis, ZU6R Len Nicholson, ZU6B Fraser Alexander, "Viv" Hicks, ZU6M Brian Scallan, B van Heerden (SABC Eng.),
ZUGK "Ronny" Levey, ZU6E "Wally" Browning, ZS6AF "Bill" Lister, "Watty" Watson,
ZUGL "Tommy" Laxton, ZU6D FH Connolly, ZUGN "Nellie" de Kock



SARL-100

PARC 95 CELEBRATION

The Pretoria Amateur Radio Club will celebrate it's 95th Anniversary on the 16th of May 2025 at the Royal Elephant Hotel & Conference Centre, Cnr Willem Botha & Wierda Rd, Eldoraigne, Centurion

Cost for Paid-up PARC Members: R100 Per Person

Cost for Non-Paid-up Members and Others: R300 Per Person

Die Pretoria Amateur Radio Klub vier sy 95^{ste} Herdenking op die 16^{de} Mei 2025 by die Royal Elephant Hotel & Konferensiesentrum, Hv Cnr Willem Botha & Wierda Rd, Eldoraigne, Centurion

Koste vir Opbetaalde PARK Lede: R100 Per Persoon

Koste vir Nie Opbetaalde PARK Lede en Ander: R300 Per Persoon

PARK 95 VIERING

SARL-100



PARC-95



DX and IOTA News

This is the continuation of a monthly information series on DX and IOTA News, which is also presented during Sunday morning PARC bulletins. All information and photographs are obtained from the <https://dxnews.com/> website and they are hereby credited. Where individuals are credited for their photographs which appear on the <https://dxnews.com/> website, they are also credited in this presentation.

T32AZ Kiritimati Island

Kenneth, KH6QJ will be active again as T32AZ from Kiritimati Island, IOTA OC - 024, Eastern Kiribati, 28 February - 3 March 2025. He will operate on 160, 80, 40, 20, 15 and 10m, SSB.



The territory of Kiritimati Island (second name Christmas Island) belongs to the state of Kiribati. Neighbors of the archipelago are the islands of Tabueran, Honolulu and Tahiti. The total land area is only 60 square kilometers larger than the surrounding lagoons and is 388 m². It is the world's largest atoll of coral origin, conventionally divided into five enclosed areas. Ref: <https://dxnews.com/t32az-eastern-kiribati-islands/>

8J1RL Showa Research Station

8J1RL is currently active from Showa Research Station, Queen Maud Land, IOTA AN - 015. He will operate on HF Bands, CW, Digital Modes.



The most explored territory of one sixth of the world is considered to be Queen Maud Land, which is located on the Atlantic coast of Antarctica. It received its name in 1929 after an air expeditionary voyage conducted by pilot J. Rissen-Larsen. Rissen-Larsen. The Norwegian loyalist made a flight over the glacial continent and fixed unexplored lands to the east and west of the zero meridian. The sonorous name was given in honour of Queen Maud, who was the daughter of King Edward the Seventh of Norway.

Ref: <https://dxnews.com/8j1rl/>

Showa Research Station, Queen Maud Land, Antarctica. 8J1RL 8J60JARE.

ZF2CA Cayman Islands

Colin, G4CWH will be active again as ZF2CA from Cayman Islands, IOTA NA - 016, in Beru Contest, 8 - 9 March 2025. Before and after contest he will operate on 160 - 10m CW, SSB.



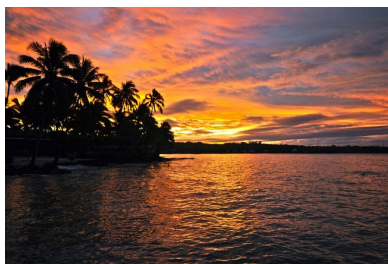
Not all that gold that glitters, it is also not a fact that the islands are swarming with alligators, even if they are called Cayman Islands. The history of the islands' name has to do with a different animal altogether. When in 1503 Christopher Columbus' ship docked at the shores of the hitherto unknown islands in the Caribbean Sea, somewhere in the middle between Cuba and Jamaica, both he and the sailors were shocked by the huge number of green sea turtles. That's when the islands got the name Las Tortugas - the turtles. A little later, Europeans visited the island, and they came up with a new name: Lagartos - alligators, which became the original version for the name of the Cayman Islands, which has been fixed since 1530. The answer to the reasonable question: "why are the islands called Cayman Islands if there are no crocodiles there?" is simple. Europeans unsophisticated in exotic fauna simply confused large but harmless iguanas with bloodthirsty crocodiles. To this day, iguanas of different species live peacefully here: sand iguanas, green iguanas and even unique blue iguanas. A rare species of blue iguana, preserved only in the Cayman Islands, is protected by the Law. Ref: <https://dxnews.com/zf2ca-cayman/>

5W0UO Samoa

Dave, G4BUO will be active as 5W0UO from Samoa, IOTA OC - 097, 23 February - 4 March 2025. He will operate on HF Bands CW only. Ref: <https://dxnews.com/5w0uo/>



Author - Alain Perez.



Author - Marcello Olla.



Author - Rafael Zwiegincew.

OX3LX Greenland

Bo (Joergen), OZ1DJJ will be active as OX3LX from Greenland, IOTA NA - 018, 25 February - 14 March 2025. He will operate on HF Bands and QO - 100 Satellite.



Author - Klaus Muller

The island was discovered in the tenth century by Norwegian travelers. Before the arrival of Europeans, there were no people on the entire island. The first to settle here were the Inuit - Arctic people. But it happened only in the XIII century, when Denmark declared the island its territory. And only in 1979 Greenland was granted independence in the conduct of domestic policy. Moreover, in 2008, a general vote took place on the island, after which the rights of the local administration were significantly expanded. Now the government of the island has received the ability to control and dispose of natural resources, independently solve legal problems and even partially conduct its own foreign policy. It is planned that the island will soon gain full economic and political independence. Ref: <https://dxnews.com/ox3lx/>

D68Z Comoro Islands

Elvira, IV3FSG will be active as D68Z from Moroni, Comoro Islands, IOTA AF - 007, 28 February - 18 March 2025. She will operate on HF Bands, CW, SSB, Digital modes.



Author - Scottgunn



Author - Pretusi

The Comoros Islands are in the northern zone of the Strait of Mozambique. They are located between Africa and Madagascar. This state is an archipelago of three large and several small islets. The Comoros Islands are of volcanic origin. They have mountainous terrain and are surrounded by coral reefs. The mountain slopes are covered with dense tropical vegetation from above and savannahs and scrublands from below. The climate of the Comoros is tropical. It is characterized by high humidity and heat. The summer season lasts from the beginning of November to the end of April. Currently, the average temperatures are kept at +27 ° C, while in the daytime they periodically reach 30 degrees and above. Ref: <https://dxnews.com/d68z/>

H44MS Solomon Islands

Bernhard, DL2GAC will be active as H44MS from Honiara, Guadalcanal Island, IOTA OC - 047, 9 February - 7 May 2025. He will be operating on 40 - 6m SSB and FT8. Ads for direct QSL: Bernhard M. Stefan, Moeggenweilerstr. 18, 88677 Markdorf, Germany.



Standing in the North east of Papua New Guinea and northwest of Vanuatu is royal country named as Solomon islands and land area is over area of 28,400 sq. Kilometers. Capital of country that is located on the Guadal canal island is Honiara. Melanesian island, Solomon Islands archipelago and is different from Solomon Islands. This island is populated for thousands of years. Ref: <https://dxnews.com/solomon-islands h44ms 2011/>

Tackling the QRP Contest with One Watt: by Vernon Fryer ZS6AIG

During the recent SARL QRP contest held on the 18th January, OM Ryan ZS6GGR and OM Vernon ZS6AIG decided to set up a field station, from OM Vernon salt mine based in the Pretoria East area of Shere at grid location KG44FE. With overcast weather we were ready to take to the airways.

OM Ryan was armed with an ICOM 705, battery pack, 4:1 balun, fishing rod and sinker and a 40m piece of wire for the EFHW.

After the third attempt OM Ryan managed to get the line and sinker spot on in the middle of the 30m tree in line of sight of our operating station. After a bit of trimming the EFHW was matched at a perfect 1:1 SWR.



Within minutes of the start of the contest OM Ryan armed with 1 Watt the stations started rolling in. The first leg was 40m, and the band was slowly closing at 09:00 but several ZS6 were still working on 1 Watt. Below is Ryan ZS6GGR turning that perfect SWR.

The second leg of the contest was 20m and the conditions were excellent, the best I have heard in a long time. It did not take too much time and OM Ryan managed to work some stations in ZS1, W51 and 9J2 on 10-Watt voice.

Before the contest OM Vernon spent some time on 40m listening to the early birds operating on AM, bringing back some good memories of the olden days and having to keep tweaking the VFO to keep track of the drifting the old value sets. Due to a bit of cross modulation problems between the two rigs and not taking part in the contest OM Vernon moved on to FT8 hunting for rare countries he has not worked before.

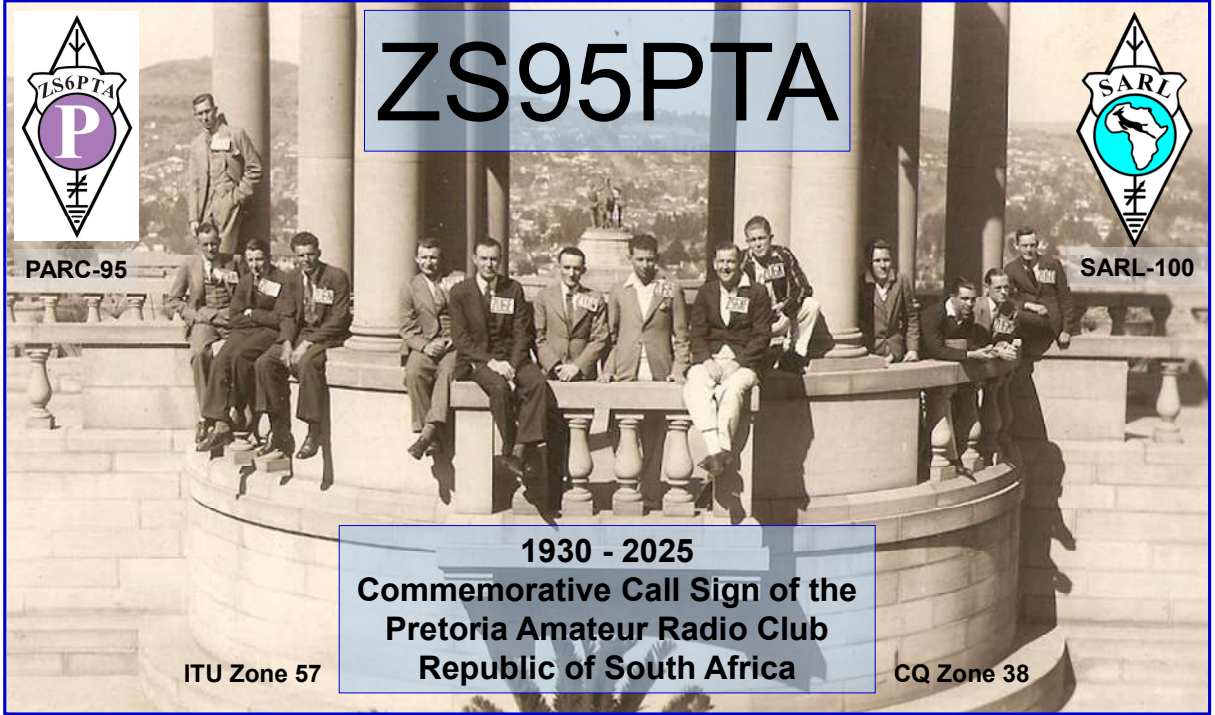
OM Vernon took his ICOM 7300 along with his “SUPER MP1C” portable all band antenna and Aneroid tablet for FT8 loaded with FT8CN. Below is the MP1C antenna.



After the contest we had some extra time to chat about the stations we had logged in, and what we should do next time we set up the station. Working through the log we noted a few younger call signs which was a good indication that younger hams have taken an interest in contests, also disappointing was no PARC members heard. Another point we made is doing a field station more often and giving us the opportunity to share experience and testing different antenna configurations. Also maybe invite some others interested in QRP and antenna testing.

PARC-95 QSL Card / PARK-95 QSL Kaart

The design below for the PARC-95 QSL Card was approved by the Committee of the Pretoria Amateur Radio Club, showing the front and back sides, honoring the pioneering founder Members of PARC.



Motor Rallies: Dates of Events for 2025
Motor Tydrenne: Datums vir 2025



SARRC 2025 OFF ROAD CARS

Rounds	Date	Location
Round 1	14-15 March	Vryheid - KZN
18 - 24 May: SA SAFARI: Sun City through Mahikeng		
Round 2	27-28 June	Thabazimbi - Limpopo
Round 3	15-16 August	Legends Adventure Farm
Round 4	19-20 September	Louvain Guest Farm - W/C
Rounds 5 & 6	3-4 October	Stonehenge Lodge - Parys

NRC 2025 RALLIES

Dates	Rally Name	Province	Town
25-26 April	Fouriesburg	Free State	Fouriesburg
30-31 May	Tzaneen	Limpopo	Tzaneen
25-26 July	Algoa	Eastern Cape	Jeffereysbay
29-30 August	TBA	Gauteng/ Mpumalanga	TBA
26-27 September	Ermelo	Mpumalanga	Ermelo
31 Oct - 01 Nov	TRACN4	TBA	TBA
21-22 November	Rain Date	TBA	TBA

For More Rally information please contact the following Radio Marshalls:

Graham Reid ZS6GJR at: 083-701-0511 or greid@wol.co.za
 Irene Myburgh ZS6IEA at: 082-462-6001 or irene.myburgh@outlook.com
 Johan de Bruyn ZS6 JHB at: 079-333-4107 or zs6jhb@gmail.com

Long Term HF Propagation for March 2025 : Courtesy Vincent Harrison ZS6BTY

The graph below shows the predicted F-layer Maximum Usable Frequency (MUF) for propagation from Pretoria^[1] using monthly sunspot numbers from SILSO^[2].

Local Propagation (up to 500 km): The F or F2 critical frequency (f_oF_2) is the MUF for short range, near vertical incidence sky-wave (NVIS) propagation.

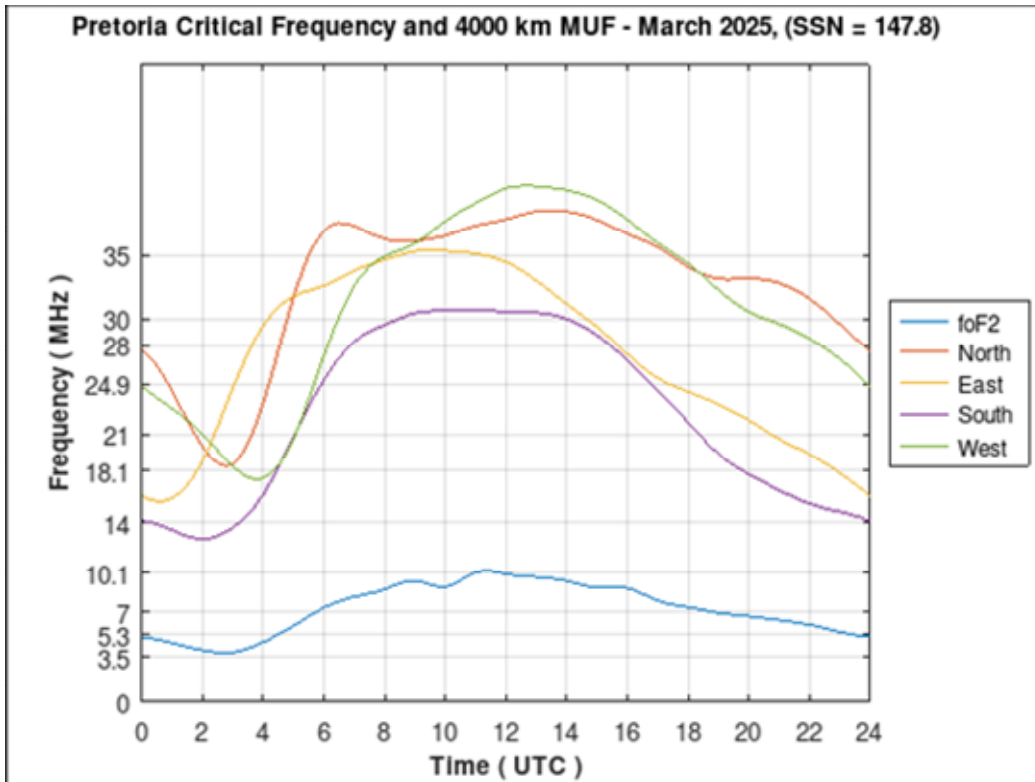
Long Distance Propagation: The MUF for a first hop of 4000 km in the cardinal directions is labeled North, East, South and West. They indicate the direction that propagation may be expected.

Worldwide Propagation Maps: <http://www.parc.org.za/index.php?page=propagation>

"Prediction is difficult, especially when dealing with the future". . . Danish Proverb. 73 Vincent, ZS6BTY

^[1]FTZMUF2: A simple method of estimating the ionospheric parameters of f_oF_2 and $M(3000)$ with the aid of a home computer - Thomas Damboldt and Peter Süßmann, Deutsche Bundespost, December 1988.

^[2] Silso 12-month forecasts of the monthly sunspot number (<http://sidc.oma.be/silso/FORECASTS/prediML.txt>)



C/O NELSPOORT & 801 MALMESBURY STR, WINGATE PARK, PRETORIA [S25.49.36 & E28.16.07]

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