



WATTS 2020-06

Year 90 + 06m

Monthly Newsletter of the Pretoria Amateur Radio Club
Maandelikse Nuusbrieff 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

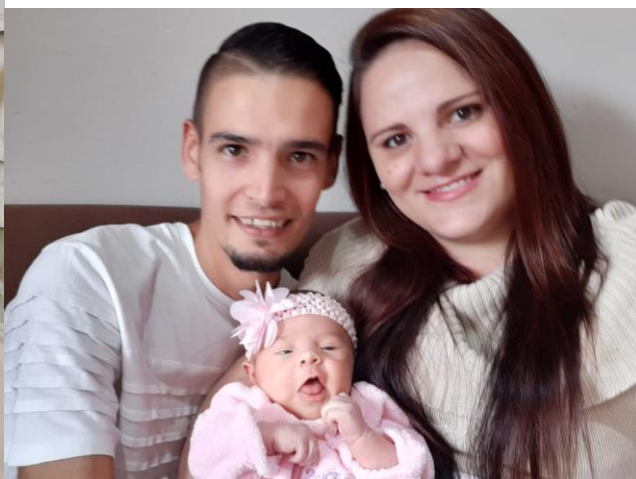
Relays: 1.840, 3.700, 7.066, 10.135, 14.235, 51.400, 438.825, 1297 MHz
and Echolink. Activated frequencies are announced prior to bulletins

Swapshop : 2m and 7.066 MHz live on-air after bulletins

Bulletin repeats on Mondays / herhalings op Maandae : 2m 19h45



Irene ZS6IEA en Pieter ZS6PAM Myburgh het op die 14 de April nog 'n kleinkind ryker geword. Klein Liane is hul vierde kleinkind, en een van drie kleindogters en een kleinseun. Onder is Irene en Pieter se dogter Natasha en haar gade Franco Fereirra. Park wens Irene en Pieter van harte geluk met hul kleinkind. Mag sy 'n helder ligstraal in hierdie tye wees.



In This Issue / In Hierdie Uitgawe

PARC 2019-20 Committee- & Co-opted Members.....	P 2
Birthdays/Verjaarsdae ; Joys & Sorrows/Lief en Leed.....	P 2
PARC Bulletin Roster ; Club Fees ; Flea-Markets 2020.....	P 3
Dagboek van Gebeure / PARC Contest Participation.....	P 4
Noodverligting ondersteuning.....	P 5
SARL 95: A celebration of Amateur Radio.....	P 6-9
Rally Events 2020 ; Tydren Geleenthede 2020.....	P 10
Advertisements and HF Propagation.....	P 11

Club Meetings / Klub Vergaderings

Club Committee Meeting :

The date of the next Meeting for the 2020/21 PARC Committee will be on the 11th of June at 19h00 via zoom.



The South African Radio League celebrated it's 95th birthday on the 20th of May 2020, which was marked by the call-sign ZS95SARL for Members to operate with and obtain a special certificate of participation. On pages 6-9 a couple of extracts from the "Radio" and "Radio ZS" magazines from 1925 and 1947 are presented to take us back on a trip back to the past. The Pretoria Amateur Radio Club feels honored to celebrate it's 90th anniversary this year together with the SARL.

PARC Committee Members : 2019 – 2020 / PARK Komiteelede : 2019 - 2020

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Louis de Wet ZS6SK	Chairman, Watts, SARL, ICASA	louis.zs6sk@gmail.com	012-349-1044	072-140-9893
Graham Reid ZS6GJR	Vice Chairman, Treasurer, Website	greid@wol.co.za	012-667-2720	083-701-0511
Johan de Bruyn ZS6JHB	Rallies, Repeaters & Membership	zs6jhb@gmail.com	012-803-9418	079-333-4107
Irene Myburgh ZS6IEA	Club Secretary & Social	irene.myburgh@outlook.com	012-304-5109	082-462-6001
Albert Schreuder ZS6SE	Contests, Social & Taxation	albert.schreuder.za@gmail.com	012-361-6133	082-562-3825

PARC Co-opted Members : 2019 – 2020 / PARK Ge-koopteerde Lede : 2019 - 2020

Name & Callsign	Portfolio/s	Email Address	Tel No	Mobile No
Alméro Du Pisani ZS6LDP	Flea-markets, SARL Bulletins	almero.dupisani@up.ac.za	012-420-3779	083-938-8955
Tony Crowder ZS6CRO	Auditor	tcrowder@telkomsa.net	011-672-3311	
Pierre Holtzhausen ZS6PJH	Contests	zs6pjh@gmail.com		082-575-5799
Pieter Myburgh ZS6PAM	Repeaters	wooden@mweb.co.za		076-140-7562
Hans Kappetijn ZS6KR (Hon.)	SARL Bulletins, Swop Shop	QRVservices@gmail.com	012-333-2612	072-204-3991
John Minter ZS6LED	RAE Training, Technical	john.minter.za@gmail.com	012-349-0019	083-291-5422

Birthdays and Anniversaries / Verjaarsdae en Huweliks Herdenkings

Member's Birthdays June 2020 / Lede Verjaarsdae Junie 2020

07 Chris Oosthuysen ZS6OC
 14 Attie Reyneke ZS6REY
 19 Fanus Ferreira ZS6BUH
 21 Marc Vanoverbeke ZS6ON

22 Richard Peer ZS6UK
 26 Pieter Stronkhorst ZR6PSR
 27 Emil Bohme ZS6EGB

Spouse's June 2020 / Gades Junie 2020

01 Fiona, gade van Etienne Naude ZS6EFN
 26 Ronel, gade van Dawid Jansen van Rensburg ZS6VS
 27 Selma, spouse of Joe Katzman ZS6TB

Anniversaries June 2020 / Herdenkings Junie 2020

24 Marita and Roy Alexander ZS6MI

Member's Birthdays July 2020 / Lede Verjaarsdae Julie 2020

06 Helen Newton ZR6HN
 13 Pieter Human ZS6PA
 17 Jan (Pine) Pienaar ZS6OB
 19 Theo Bresler ZS6TVB

20 Roy Newton ZS6XN
 26 Frank Schneider ZS6GE
 29 Lian McAllister ZS5IE
 30 Dawid Jansen van Rensburg ZS6VS

Spouse's July 2020 / Gades Julie 2020

01 Avida, gade van Theo Bresler ZS6TVB
 12 Sharmaine, gade van Louis de Wet ZS6SK
 17 Lyn, gade van André van Tonder ZS6BRC (Erelid)
 17 Judy, spouse of David Botha ZS6O
 22 Ria, spouse of Pete Smith-Curren ZS6PJ

Anniversaries July 2020 / Herdenkings Julie 2020

06 Elsa en Fritz Sutherland ZS6SF
 26 Antoinette ZS6D en Daniel ZS6AW Liebenberg

Lief en Leed /Joys and Sorrows

Dit is met leedwese dat ons verneem het van die afterwe van die suster van Nick Louw ZS6NWL. Nick is die skoonseun van Pieter ZS6CN en Annatjie Fourie. Pretoria Amateur Radio Klub dra hiermee ons innige meevoel oor aan Nick, Wilma en gesin.

Edmar Willers ZS6UT was tien dae in die hospitaal vir behandeling. Hy het onlangs teruggekeer huistoe en sterk tans aan. Pretoria Amateur Radio Klub wens Ed 'n spoedige herstel en alles van die beste toe.

PARC Membership Fees / PARK Ledegelde

For the 2019-2020 year, there will be no increases in Club Membership fees. Club Fees therefore remain at R160 for Ordinary Members, and R60 for Pensioners and Spouse. Vir die 2019-2020 jaar sal daar geen toenames in die Klub Lidmaatskap gelde wees nie. Dus bly die gelde op R160 vir Gewone Lede, en R60 vir Pensionarisse en Gade.

PARC SUBS : PARK LEDEGELD : FROM / VANAF : 30-06-2018			
Bank	First National Bank	Ordinary Members / Gewone Lede : R160 Spouses / Pensioners : R60	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 Bulletin Roster / PARK Bulletin Rooster

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 make a contribution to the Bulletin. PARC Bulletins are broadcast on the 2-meter repeater on 145.725 MHz, and 70 cm on 438.025 MHz. Relays are done on 7.060 MHz by Hans Kappetijn ZS6KR and on Echolink by Johan Lehman ZS6JPL. A re-broadcast of the Bulletin is done the following Monday evening at 19h45 by Hans ZS6KR.

PARK Bulletins word op Sondag oggende 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 438.205 MHz. Herleidings word gedoen op 7.060 MHz deur Hans Kappetijn ZS6KR, en op Echolink deur Johan Lehman ZS6JPL. 'n Heruitsending van die Bulletin geskied die opvolgende Maandag aand om 19h45 en word behartig deur Hans ZS6KR.

PARC Bulletin Presenters : May – August 2020			
Date	Presenter	Date	Presenter
24 May 2020	Johan de Bruyn ZS6JHB	12 July 2020	Alméro Du Pisani ZS6LDP
31 May 2020	Louis de Wet ZS6SK	19 July 2020	Johan de Bruyn ZS6JHB
7 June 2020	Albert Schreuder ZS6SE	25 July 2020	Louis de Wet ZS6SK
14 June 2020	Alméro Du Pisani ZS6LDP	2 August 2020	Albert Schreuder ZS6SE
21 June 2020	Johan de Bruyn ZS6JHB	9 August 2020	Alméro Du Pisani ZS6LDP
28 June 2020	Louis de Wet ZS6SK	16 August 2020	Johan de Bruyn ZS6JHB
5 July 2020	Albert Schreuder ZS6SE	23 August 2020	Louis de Wet ZS6SK

PARC Fleamarket Dates 2020 / PARK Snuffelmark Datums 2020

DUE TO LOCKDOWN REGULATIONS, NO FLEAMARKETS WILL TAKE PLACE IN 2020 UNTIL FURTHER NOTICE
AS GEVOLG VAN INPERKINGS REGULASIES, SAL GEEN SNUFFELMARKTE PLAASVIND IN 2020 TOT VERDERE KENNISGEWING

For more information, contact / Vir meer inligting, kontak
Alméro Du Pisani ZS6LDP at 083-938-8955 or almero.dupisani@up.ac.za

Diary of Contests & Events / Dagboek van Kompetisies en Gebeure

Contests and Events - June 2020 / Kompetisies en Gebeure - Junie 2020 (UTC Times)	
05	World Environmental Day
06	SARL VHF/UHF QSO Party
08	World Ocean's Day
06 - 07	10-10 International Open Season PSK Contest: 00h01Z - 23h59Z
13	Asia-Pacific Sprint, SSB: 11h00Z - 13h00Z
13 - 14	GACW WWSA CW DX Contest: 15h00Z - 15h00Z
16	SARL Youth Sprint: 12h00Z - 14h00Z
18 - 22	SARL Top Band QSO Party
20	SARL 95: 40m Club Sprint
20 - 21	All Asian DX Contest, CW: 00h00Z - 24h00Z
27 - 28	His Majesty King of Spain Contest, SSB: 12h00Z - 12h00Z
30	World Asteroid Day
Contests and Events - July 2020 / Kompetisies en Gebeure - Julie 2020 (UTC Times)	
01	RAC Canada Day Contest: 00h00Z - 23h59Z
04	SARL Newbie Party
05	ZS5 Sprint
04 - 05	Marconi Memorial HF Contest: 14h00Z - 14h00Z
11	RaDAR Challenge
11 - 12	IARU HF World Championship: 12h00Z - 12h00Z
15	SARL 80m Wednesday Club
18	Winter QRP Contest
19	ZS2 Sprint
18 - 19	CQ Worldwide VHF Contest: 18h00Z - 21h00Z
25 - 26	RSGB IOTA Contest: 12h00Z - 12h00Z
29 - 30	Delta Aquarids & Alpha Capricornids meteor showers
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	

Pretoria Amateur Radio Club: Dates of Social Activities: 2020 Pretoria Amateur Radio Klub: Datums van Sosiale Aktiwiteite: 2020

Annual General Meeting: 22 August
Algemene Jaarvergadering: 22 Augustus
Veterane Ontbyt: 10 Oktober
Veteran's Breakfast: 10 October
PARC 90'th Anniversary Celebration: 14 November
PARK 90 Jarige Viering: 14 November

For more information, contact / Vir meer inligting, kontak
[Irene Myburgh ZS6IEA at 084-544-0618](mailto:irene.myburgh@outlook.com) or irene.myburgh@outlook.com
Please note: Due to National Lockdown regulations, dates can be changed or postponed.
Neem asseblief kennis: As gevolg van Nasionale inperkings regulasies, kan datums verander of uitgestel word.

Noodverligting Ondersteuning: Gerrie Leonard ZS6GTK

Nood verligting gelever aan "Rainbow Haven" behoeftiges tydens COVID-19 inperking.

Met die inperking tydperk, weet ons almal, dat daar menige landsburgers is wat absoluut swaar trek met betrekking tot inkomste, voedsel, kleure ens. Daarom dat 'n klompie bevoorregte Lands Burgers, wat nog 'n werk het en 'n inkomste kan gunereer, die nood besef het en aksie geneem het.

Bestuur en werknemers van Laeveld Agrochem, Waterlab en ook lede van Pretoria Radio Amateur Klub het inderhaas koppe bymekaar gesit om hierdie behoeftiges by te staan. Saam is daar geld, voedsel, klere, komberse ens. ingesamel, vervoer gereel en afgelewer by "Rainbow Haven" te Krugersdorp Wes, op 22 Mei 2020.

Die blydskap en dankbaarheid waargeneem in die ouers en kinders se oe, sit 'n ring om almal van ons se harte. Die bestuur van "Rainbow Haven" het dadelik die benodigdhede begin verpak vir verspreiding. Riekie, die bestuurder en ko-ordineerder van "Rainbow Haven" het haar innige dankbaarheid aan almal betrokke oorgedra en aan die werk gespring.

Graag wil ek, Gerrie ZS6GTK, die volgende wat betrokke was uit die diepte van my hart bedank;

Laeveld Agochem: Elizcia Coetzer - Ko-oordineering en Donasies ; Nicolette - Ko-oordineering en donasies; Ander werknemers van Agrochem - Donasies

Waterlab en PARK: Louis de Wet - wat die vervoer en aflewering behartig het, wat Watts as 'n medium beskikbaar gestel het om verslag te kan doen en, onder PARK lede se aandag te kan bring aangaande die nood in Suid Afrika tydens die Inperking.

Hiermee wil ek ook 'n beroep doen aan PARK Komitee Lede, PARK Ge-koopteerde Lede en alle PARK klub lede om asb betrokke te raak, in enige hoedanigheid hoe ookal. Ons as Amateur Radio oprateurs kan ook 'n verskil maak en enige hulp en bystand sal absoluut waardeur word. Dit is my vertroue en wens dat almal wat die artikel lees, gesond en veilig is en sal bly.



Gerrie Leonard ZS6GTK en Louis de Wet ZS6SK met personeel van Laeveld Agrochem



Gerrie en Louis saam met Personeel en kinders van Rainbow Haven in Krugersdorp

SARL 95: A Celebration of Amateur Radio

The South African Radio League celebrated its 95th anniversary on the 20th of May 2020. Serving Amateur Radio for the past nine decades, it has ensured that this magnificent hobby will endure for so much more decades to come. On the following three pages are a number of extracts from the first issues of "Radio" in 1925, when the SARL was founded, as well as from Radio ZS in 1947. Op bladsy 9 is die gedig "Die Radio Amateur" geskryf I 1947 deur ZS6CM.



RADIO
THE WIRELESS JOURNAL OF SOUTH AFRICA

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Official Organ of the
South African Radio Relay League

Capetown, 375 Metres. Johannesburg (JB), 438 Metres. Durban, 400 Metres.



The South African Radio Relay League

Headquarters:
RADIO OFFICE
Box 7007, JOHANNESBURG
Phone 6556
Telegrams: "Southads" Joburg

RAYMOND COOMBS
Hon. Organising Secretary

SARRL

Qualitas, non Quantitas

Divisional Headquarters
Hon. Secretaries:

Divs. 1-7	A4Z	Capetown
Divs. 2-3	A3Z	Port Elizabeth
Div. 4	A3V	Bloemfontein
Divs. 5-8	A3E	Durban
Div. 6	A6A	Johannesburg
Div. 9	2SR	Selukwe
Div. 10	CVPE	Villa Pery
Div. 12	1SR	Salisbury



RADIO-ZS

OFFICIAL ORGAN OF THE S.A.R.L.

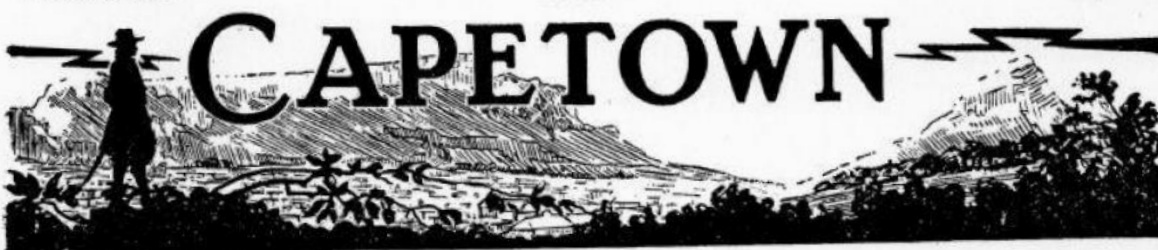
PRESIDENT:
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Radio Society Reports

Societies with an asterisk are affiliated to the Radio Society of Great Britain. Secretaries of the societies will be pleased to furnish particulars to intending members and other information.

West Rand Radio Society, Roodepoort

Secretary: C. Elliot-Wilson, Radio A5M,

The matter had already been dealt with by the Committee, and an exact copy of the letter was posted on 1st October. The proposed Electrical Exhibition was cancelled, but it is expected to be



Correspondence

Address your letter to RADIO, Box 7007, Johannesburg. Don't forget to quote your official subscription number. If you want an individual answer send an addressed stamped envelope.

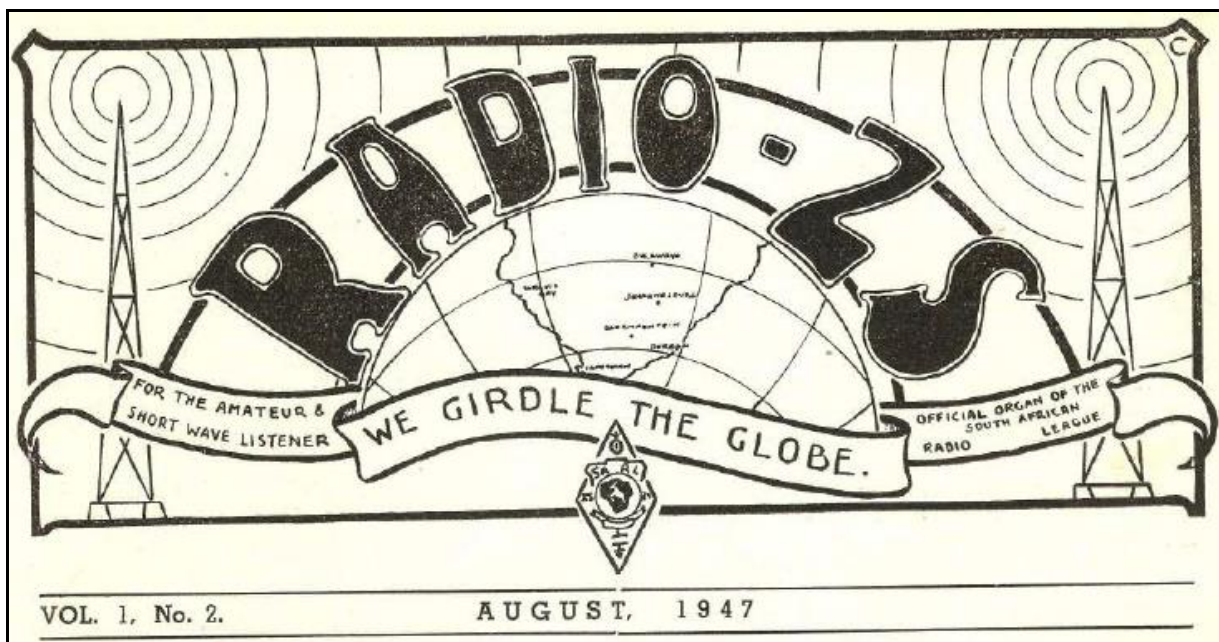
Subscribers Interesting Observations

P.O. Box 22,
Cathcart, C.P.,
8th October, 1925.

cause of these clicks, bright sparks were observed to be jumping within the detector valve. There was still no thunder or lightning.

I have heard of a similar experience in England during a hail storm.

As your reader suggests, these experiences are undoubtedly caused by the descent of hail or rain charged with atmospheric electricity, which on touch-



HEADQUARTERS STATION ZS6Z

★
*Our
 President*
 First in Radio ZS
 Who's Who
 ★

ARLAND USSHER, our worthy President, first saw the light of day on June 23rd, 1899, and the fact that a war broke out in South Africa shortly afterwards is purely coincidental, as our friends of the movies are wont to say. His first contact with radio was with a spark transmitter and a coherer, maximum dx claimed being six feet, which is six inches less than his present height. (See Educated Willyum's column for further comments.)

Attended Charterhouse School 1913-16 and interrupted his studies to take a crack at the Kaiser in the 1914-1919 war, joining the R.F.C. and later the R.A.F. as a fighter pilot, learning something of the Morse Code in the process.

At the conclusion of hostilities went to Trinity College, Cambridge, in 1919 and graduated with a B.A. degree in Engineering. Returned to the Union in 1922 (we had a revolution in South Africa that year). Arland built himself a receiver and listened to 2OB, the station owned and operated by Toby

Innes, and incidentally heard the first broadcasting in South Africa. Obtained his amateur call FO-A6U in January, 1927, and operated on 36 metres for some time. Joined the S.A.R.R.L. in the same year and after filling all the usual offices such as Chairman, Secretary and Committeeman of Div. 6, succeeded Joseph White as President of the League in 1937.

In the interim had obtained his M.A. (Camtab.) and is also M.Inst.W., M.I.E.S. A.I. and M.I.P.E. Prior to the second world war succeeded in getting his phone WAC and transmitted the H.Q. Bulletins until the great shutdown in 1940.

His present call sign is ZS6Z and is to be heard on the air regularly. Although radio is probably his first hobby, Arland is also interested in 16mm. colour movies, motor boating and claims to be a plain speaker. He has been a tower of strength to the League during many trying years and has devoted much of his time to the advancement of Amateur Radio in this country.

DIE RADIO-AMATEUR—

Pasop, pasop vir die radio-amateur,
As hy jou byt lag jy altyddeur.

Hy byt Hendrik Botha op 'n dag,
Daar kry die man die lekkerlag.
Dit kielie hier, dit kielie daar,
Dit kielie oral aanmekaar
Sy voetsool, hand, sy hart se sak.
Dt kielie in sy kieliebak.

Sy oë rek wyd sy hande wys
Na lampe, klosse, kondensators
inkluis.
Hy rol, hy krul die drade deur-
mekaar.
Ha-hal lag hy en kannie bedaar
Ho-hol hy lag uit skone plesier.
Hie-hiel hy kry 'n nuwe gier.

Sy are swel, sy kleur word blou.
Die lagbui word 'n wolkbreuk nou.
Sy maat skrik, my liewe tyd —
Vanwaar nou die lagsinnigheid?
Sy vrou kerm: ag, wat is dit.
Nog nooit had hy die ritteltit!

Sy eerste ontvanger werk en hy
luister
Op die oorfone en niks was meer
duister.
Hy hoor musiek en die kode,
Ag, klink dit tog nie soos die gode
Van Orpheus en Marconil
Nee, nooit! dit is nie so nie.

Want hierdie ding is klinkklaar
waar.
Nou kan alle ander dinge maar
vaar.
Toe lag hy eens so erg
Want die eerste stap het nie te veel
geverg.
Nou mompel sy vrou erg boos,
Ek vrees die saak is hopeloos.

Toe roep sy oom Jaap, die ouderling
Maar Hendrik soldeer en bly
sonderling.
Ten einde raad, roep sy die
Dominie.
Hy sug en sê: Mevr., hy glo my nie,
Hendrik leer net die kode
En beskou dit as sy gode.

Hendrik ken die kode
En beskou dit as sy bode
Om ver oor land en see te praat
Van vroeg tot laat in die ergste
graad.
Hendrik roep en roep so sonder end.
Hier antwoord 'n land! maar
onbekend.

Dis 'n nuwe land! Dis 'n nuwe land!
Ek het darem maar 'n gelukkige
hand!
Daar roep sy vrou vir ete.
Ag, tog, dit wek weer nuwe vete.
Hy moet eers hierdie roep
beantwoord
Of die nuwe land is dalk oorboord.

Skril kom die roep weer uit die
kombuis,
Sy asem jaag, hy sit so stil soos 'n
muis.
Soos towerklanke kom die seine,
Dit streel sy gemoed weer soos
medisyne.
Hy moet eers klaarmaak al volg
daar pyne,
Netnou kan hy weer alles bring in
die reïne.

Sy vrou roep nou die hulp van sy
vader.
Hendrik bly verdiep en dink nou
weer oor radar,
„My kind stel jou maar gerus,
Ek sal alles reg probeer sus.
Ek het al mense in die wandel
Met ekstrak van verstand behandel.

Bleek en uitgeput sit Hendrik by sy
tafel.
„Hendrik, jy lyk al net soos 'n rafel,
Bedaar man, bedaar nou weer!”
„As jy nie stop nie, sal ek jou
keer!
Kom jy weer na my yom gold te leen,
Sal die nee en nee op jou neer-
reën.”

ZS6CM.

2020 Northern Regions Rally Calendar

Rnd	Date	Province	Location
1.	28 March	Mpumalanga	Delmas
2.	26 April	Mpumalanga	Sabie
3.	22 August	Mpumalanga	Bad Plaas
4.	17 October	Mpumalanga	Belfast

4X4 Rally Calendar: February – June 2020

Round	Date	Event	Location
1	01-Feb-20	GXCC	Bronkhorstspuit
1	08-Feb-20	NAT BIKE	Lesotho
1	28/29 Feb 2020	SACCS	Dullstroom
2	07-Mar-20	GXCC	TBA
1	27/28 Mar 2020	NRC	Delmas
2	3/4 Apr 2020	SACCS	Sugarbelt
2	18-Apr-20	NAT BIKE	KZN
2	25/26 Apr 2020	NRC	Sabie
3	09-May-20	GXCC	TBA
3	22/23 May 2020	SACCS	Clarins
3	29/30 May 2020	NRC	Porterville
4	06-Jun-20	GXCC	TBA
4	26/27/28 Jun	SACCS	Selibe Pikwe

Please do contact Johan de Bruyn ZS6JHB or Graham Reid ZS6GJR for more information

Long Term HF Propagation for May 2020: 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.

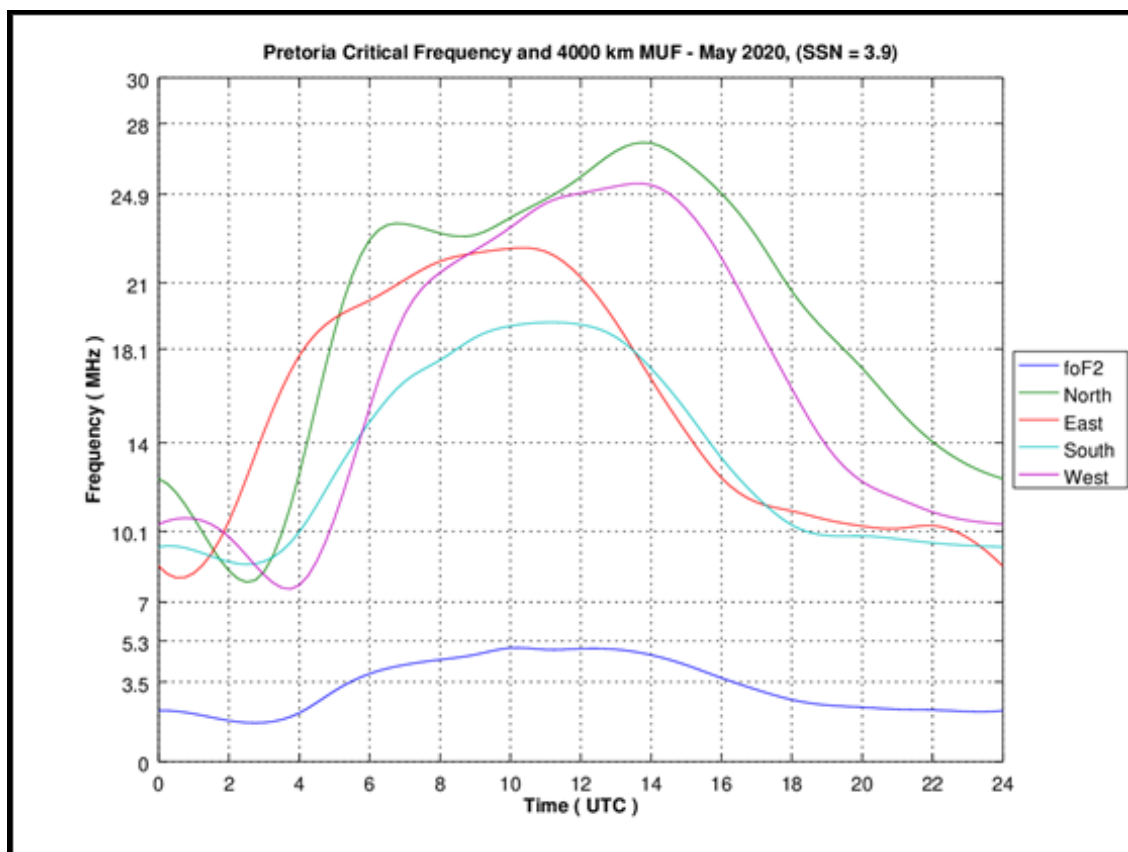
Long Distance Propagation: The MUF for a first hop of 4000 km in the cardinal directions is labeled North, East, South and West. They indicate the direction that propagation may be expected.

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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Products:

- Legal limit 40m dipole traps
- Linear power supply O.V. protection kits
- 13.8V 45A DC switching supplies
- 30A DC Anderson Power Poles
- Connectors RF and Audio
- Plug-in triple sequential industrial timers

Contact Hans at 012-333-2612 or 072-204-3991