



WATTS 2019-12

Year 89 + 12m

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
Swoopshop : 2m and 7.066 MHz live on-air after bulletins
Bulletin repeats on Mondays / herhalings op Maandae : 2m 19h45



Gerrie Leonard ZS6GTK en Zak Pienaar ZR6ZAK het met die konstruksie van 'n radiomas vir 'n mede radio amateur gewys waarvoor Amateur Gees (Ham Spirit) gaan. Meer daaroor op bladsy 5.

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Club Meetings / Klub Vergaderings

Club Committee Meeting :

The next Meeting for the 2020/21 PARC Committee will be held on the 15th of January 2020. Venue to be announced.



PARC Committee Members : 2019 – 2020 / PARK Komiteede : 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@srsa.gov.za	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	ORVservices@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 December 2019 / Lede Verjaarsdae Desember 2019

01 Pieter Fourie ZS6CN (70)	08 Hans Kappetijn ZS6KR (75) (Hon. Member)
02 Antoinette Liebenberg ZS6D	15 Alméro Du Pisani (60) ZS6LDP
07 Hansie Meyer ZS6AIK	27 Pierre Britz ZR6ADZ
07 Tim Meyer ZS6TIM	28 Allan De Souza ZS6AVC (50)
08 Nielmari Wilson ZS6NMW	30 Hans van de Groenendaal ZS6AKV

Spouse's December 2019 / Gades Desember 2019

06 Sylvia, gade van Tjerk Lammers ZS6P (Erelid)
12 Elsa, gade van Fritz Sutherland ZS6SF
23 Dienkie, gade Pierre Britz ZR6ADZ

Anniversaries December / Herdenkings Desember 2019

08 Avida en Theo Bresler ZS6TVB
29 Estelle en Pierre Duminy ZS6FPS

Member's Birthdays January 2020 / Lede Verjaarsdae Januarie 2020

05 Pierre Holtzhausen ZS6PJH	12 Gustav Snyman ZS6BWN
07 Bertus Viljoen ZS6VIL	18 DP du Toit ZR6DP
10 Wynand Wessels ZR6WW	21 Albert Schreuder ZS6SE

Spouse's January 2020 / Gades Januarie 2020

15 Moira, gade van Fanus Ferreira ZS6BUH
18 Zeld, gade van Wynand Wessels ZR6WW
25 Magriet, gade van Tobie Jansen van Rensburg ZS6ZX

Anniversaries January 2020 / Herdenkings Januarie 2020

05 Louise en Alméro Du Pisani ZS6LDP
11 Judy and David Botha ZS6O
20 Helga en Hans-Peter Knoepfler ZS6AJS

Lief en Leed / Joys and Sorrows

Corrie de Bruyn, gade van Johan de Bruyn ZS6JHB is onlangs opgeneem vir mediese toetse, en sal vroeg in Januarie verdure toetse ondergaan. Ons wens Corrie en Johan alles van die beste toe.
The cousin of Andre Coetzee recently passed away. Our sincere condolences to Andre and family.



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 oorpasing 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 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 438.205 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 : October 2019 - January 2020			
Date	Presenter	Date	Presenter
20 October 2019	Alméro Du Pisani ZS6LDP	08 December 2019	Louis de Wet ZS6SK
27 October 2019	Johan de Bruyn ZS6JHB	15 December 2019	Albert Schreuder ZS6SE
03 November 2019	Louis de Wet ZS6SK	22 December 2019	Etienne Naude ZS6EFN
10 November 2019	Albert Schreuder ZS6SE	29 December 2019	Alméro Du Pisani ZS6LDP
17 November 2019	Etienne Naude ZS6EFN	05 January 2020	Johan de Bruyn ZS6JHB
24 November 2019	Alméro Du Pisani ZS6LDP	12 January 2019	Louis de Wet ZS6SK
01 December 2019	Johan de Bruyn ZS6JHB	19 January 2019	Albert Schreuder ZS6SE

PARC Fleamarket Dates 2020 / PARK Snuffelmark Datums 2020

The PARC Flea Market dates for 2020 will be on:
The PARK Snuffelmark datums vir 2020 sal wees op:

4 April ; 1 August ; 31 October
(From 10h00 / Vanaf 10h00)

To book a table, please do contact: / Om 'n tafel te bespreek, kontak gerus:
[Alméro Du Pisani ZS6LDP at 083-938-8955 or almero.dupisani@up.ac.za](mailto:almero.dupisani@up.ac.za)

Diary of Contests & Events / Dagboek van Kompetisies en Gebeure

Contests and Events - December 2019 / Kompetisies en Gebeure - Desember 2019 (UTC Times)	
01	Start of Yota Month 2019
06 - 08	ARRL 160-Meter Contest: 22h00Z - 16h00Z
07 - 08	PRO CW Contest: 16h00Z - 15h59Z
07 - 08	International Naval Contest: 16h00Z - 15h59Z
07 - 08	EPC Ukraine DX Contest: 20h00Z - 19h59Z
11	NAQCC CW Sprint: 01h30Z - 03h30Z
14 - 15	ARRL 10-Meter Contest: 00h00Z - 24h00Z
18	NAQCC CW Sprint: 01h30Z - 03h30Z
20	Russian 160-Meter Contest: 20h00Z - 24h00Z
21	OK DX RTTY Contest: 00h00Z - 24h00Z
21 - 22	Gedebage DX Contest: 12h00Z - 11h59Z
21 - 22	Croatian CW Contest: 14h00 - 14h00
31	End of Yota Month and CQ DX Marathon
Contests and Events - January 2020 / Kompetisies en Gebeure - Januarie 2020 (UTC Times)	
01	Start of the 2020 CQ DX Marathon
04	RSGB AFS Contest, CW: 13h00Z - 17h00Z
11 - 12	North American QSO Party, CW: 18h00Z - 05h59Z
12	NRAU-Baltic Contest, SSB: 06h30Z - 08h30Z
12	NRAU-Baltic Contest, CW: 09h00Z - 11h00Z
12	DARC 10-Meter Contest: 09h00Z - 10h59Z
12	RSGB AFS Contest, SSB: 13h00Z - 17h00Z
12 - 15	Classic Exchange, CW: 12 - 13: 14h00Z - 08h00Z ; 13 - 15: 14h00Z - 08h00Z
17 - 19	PEARS VHF/UHF Contest
18	SARL 80m Wednesday Club Sprint
18 - 19	Hungarian DX Contest: 12h00Z - 11h59
18 - 19	North American QSO Party, SSN: 18h00Z - 05h59Z
24 - 26	CQ 160-Meter Contest, CW: 22h00Z - 22h00Z
25 - 26	BARTG Sprint Contest
25 - 26	UBA DX Contest, SSB: 13h00Z - 13h00Z
31	Closing date for SARL AGM Council, Award and Council Nominations
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	

Dear PARC Members and Watts readers. The Pretoria Amateur Radio Club hereby wishes all a blessed festive season and a prosperous New Year. We sincerely thank all that have participated in all Club activities, and look forward to a great new year. With the 90th year celebration of the Pretoria Amateur Radio Club next year, we encourage all Members and Friends to share in this great milestone in the history of our Club. With sincere appreciation. Louis de Wet ZS6SK.

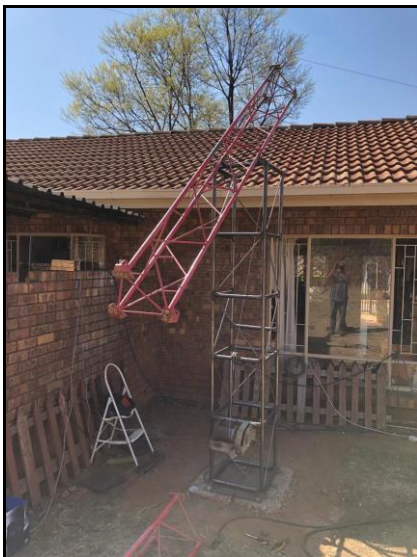
Geagte PARK Lede en Watts lesers. The Pretoria Amateur Radio Klub wens graag hiermee almal 'n geseende feesseisoen en 'n voorspoedige Nuwejaar. Ons bedank almal wat aan Klub aktiwiteite deelgeneem het, en sien uit na 'n wonderlike nuwejaar. Met die 90^{ste} feesviering van die Pretoria Amateur Radio Klub volgende jaar, nooi ons alle Lede en Vriende uit om te deel in die groot mylpaal in die geskiedenis van ons Klub. Met opregte waardering. Louis de Wet ZS6SK

Radio Amateur Gees: Gerrie Leonard ZS6GTK en Zak Pienaar ZR6ZAK

Met die bewuswording dat John Smith ZS6BNS van Centurion 'n behoefte het aan 'n radiomas, het ek besluit om met John te gaan gesels om te sien watter oplossing ons kan bewerkstellig. Daar is besluit om vir hom 'n toring op te rig. Op Saterdag, 24 Augustus het ek en Zak Pienaar ZR6ZAK die nodige materiaal aangekoop en met die voorbereiding begin. Nadat die voetstuk en staal seksies gesny is, het ons die mas aanmekaar gesweis (sien fotos onder).

Om 17h00 het ons halt geroep vir die dag, en besluit om die volgende dag die projek te voltooi. Vroeg, na die bulletin het ons aan die werk gesprong en teen 15h00 was alles voltooi, wat die toring, asook die montering en installering van die antennas, roteerder en kables insluit.

Dit was 'n groot plesier om John by te staan om weer aktief te kan word om die radio amateur bande.



PARC Vlooiemark

So op die dag van die groot rugby wêreldbeker eindstryd het die Pretoria Amateur Radio Klub die laaste vlooiemark vir 2019 aangebied by die gebruiklike Pretoria ou Motorklub. Soos altyd was die saal binne en buite volgepak met tafels gelaai met radios en 'n wye verskeidenheid komponente te koop. Buiten die tegniese verkope was daar heelwat lafenis vir die keel aan te bied, terwyl Whitey ZS6JJJ en Erna Joubert, en Kenny Martin ZS6KMM die braai aan die gang gehou het met die worsrolletjie verkope. Dit was werklik aangenaam om Ronel Jansen van Rensburg, gade van Dawid ZS6SV, te sien inisiatief neem met die verkoop van heerlike soetgerye. Ons wil werklik die dames aanmoedig om volgende jaar deel te word met die verkoop van enige ware wat hul wil aanbied.

Graag wil PARK vir Alméro Du Pisani ZS6LDP en Johan ZS6JHB en Corrie du Bruyn hartlik bedank vir hul gewaardeerde reelings met die aanbied van die suksesvolle vlooiemark.



Ronel Jansen van Rensburg met heerlike eetgerei





Corlie ZS6CHS en Pierre Smit ZS6PS

Pieter Fourie ZS6CN en Gert



Kenny ZS6KMM en Whitey ZS6JJJ en Erna Joubert

Gerrie Leonard ZS6GTK demonstreeer n draagbare HF veld radio



Regs: Danny Liebenberg ZS6AW, Pierre Smit ZS6PS en Pierre Holtzhausen ZS6PJH



Pieter Fourie ZS6CN en Corrie en Johan de Bruyn ZS6JHB



Leon ZS6LMG en Linda ZS6LML Lessing



Na afloop van die vlooiemark het die oorblywende besoekers die Springbokke ondersteun met die wêreldbeker eindstryd



Dawid Jansen van Rensburg het tydens die vlooiemark 'n demonstrasie gehou van die Zello internet radiostelsel. Indien u meer inligting wil bekom, kontak Daïd gerus by zs6vs1@gmail.com of 081-401-2076.

Die SACCS Parys 400 Tydren : Irene Myburgh ZS6IEA

Die laaste 4x4 tydren van die jaar, die SACCS Parys 400, is deur lede van die Pretoria Amateur Radioklub ondersteun, met Irene ZS6IEA en Pieter ZS6PAM, Willie ZR6WGR en Sarina Greyling, Willem en Sharon Weideman, Annelie ZS6AVN en Willie ZS6WVN van Niekerk, en Joey en Graham ZS6GJR Reid wat radio kommunikasie diens verrig het. Tydens 'n groot storm die vrydag middag het die wind 'n gazebo eers teen Willie Greyling rug vas gewaai, en toe is sy bakkie se voorruit erg beskadig, sodanig dat dit vervang moes word.



Irene Myburgh ZS6IEA, Joey Reid, Graham Reid ZS6GJR, Annelie van Niekerk ZS6AVN en Willem Weideman



Annelie van Niekerk ZS6AVN by een van die deelnemende voertuie



Irene Myburgh ZS6IEA (bo), en een van die radio beamptes se veldstasie (onder)



PARC field radio station at Kungwini: Andre Coetzee ZS6GCA

On the 23rd and 24th of November, Amateur Radio friends, Gerrie Leonard ZS6GTK, and his two daughters Kristen and Taylor-Dane, Gerrit Jooste ZS6JGJ, Weon van der Vyver ZS6LKF and myself, Andre ZS6GCA, who is a volunteer worker at Kungwini Welfare Organization, rigged up a radio amateur radio station on the premises of Kungwini. On Sunday morning, I demonstrated amateur radio activities to some of the Kungwini wheelchair-bound residents and others with disabilities. They asked various questions about amateur radio and radios as such, and showed a great interest. This demonstration took place during the Nickel Christmas Market which was from 20 November to 1 December 2019. Various products created and manufactured by the residents of Kungwini are on sale during this period, in order to generate much needed funds for this organization. Over the weekend from Kungwini we contacted other radio amateurs in the Pretoria and Johannesburg areas, as well as Cape Town, Beaufort West, Noupport near Colesberg, as well as Durban and Pietermaritzburg. Thank you very much for your support.

PARC sincerely wishes to thank and express our appreciation to Andre, Gerrie and his daughters and Weon who initiated this wonderful gesture, and encourages Members to support these Gentlemen in creating and continuing a wonderful tradition.



Gerrie Leonard ZS6GTK and Weon van der Vyver ZS6LKF busy with various demonstrations





Weon van der Vyver ZS6LKF besig met 'n demonstrasie vir die inwoners van Kungwini



Martin Esterhuizen en sy vriendin



Bo en onder: Kristen en Taylor-Dane Leonard



Van die produkte wat te koop aangebied is

The Water supply situation in the Vaal Dam: Louis de Wet ZS6SK

The current drought South Africa is experiencing is one of many the past number of decades, and future prospects by water specialists do not seem to be promising. A number of factors play a role in the availability of potable water to the South African public, of which population growth, climate change and global warming, water pollution and the capacity storage reservoirs are some of the major key aspects which are currently critical. These factors, as well as the current drought, has resulted in the level of the Vaal dam (Figure 1) decreasing to less than 40% during October 2019. Another temporary aspect which has influenced this level was the maintenance work which was conducted on the Katse dam supply tunnels, with the result that no water was released to the Vaal dam during this period.

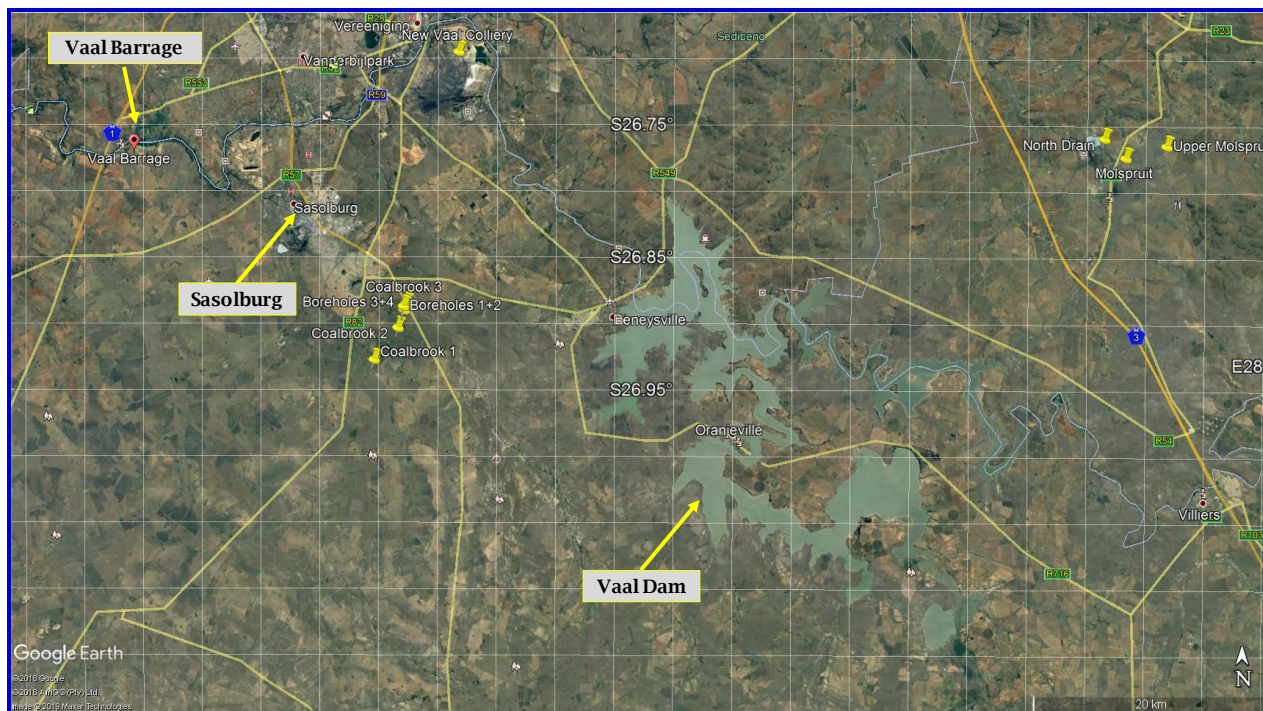
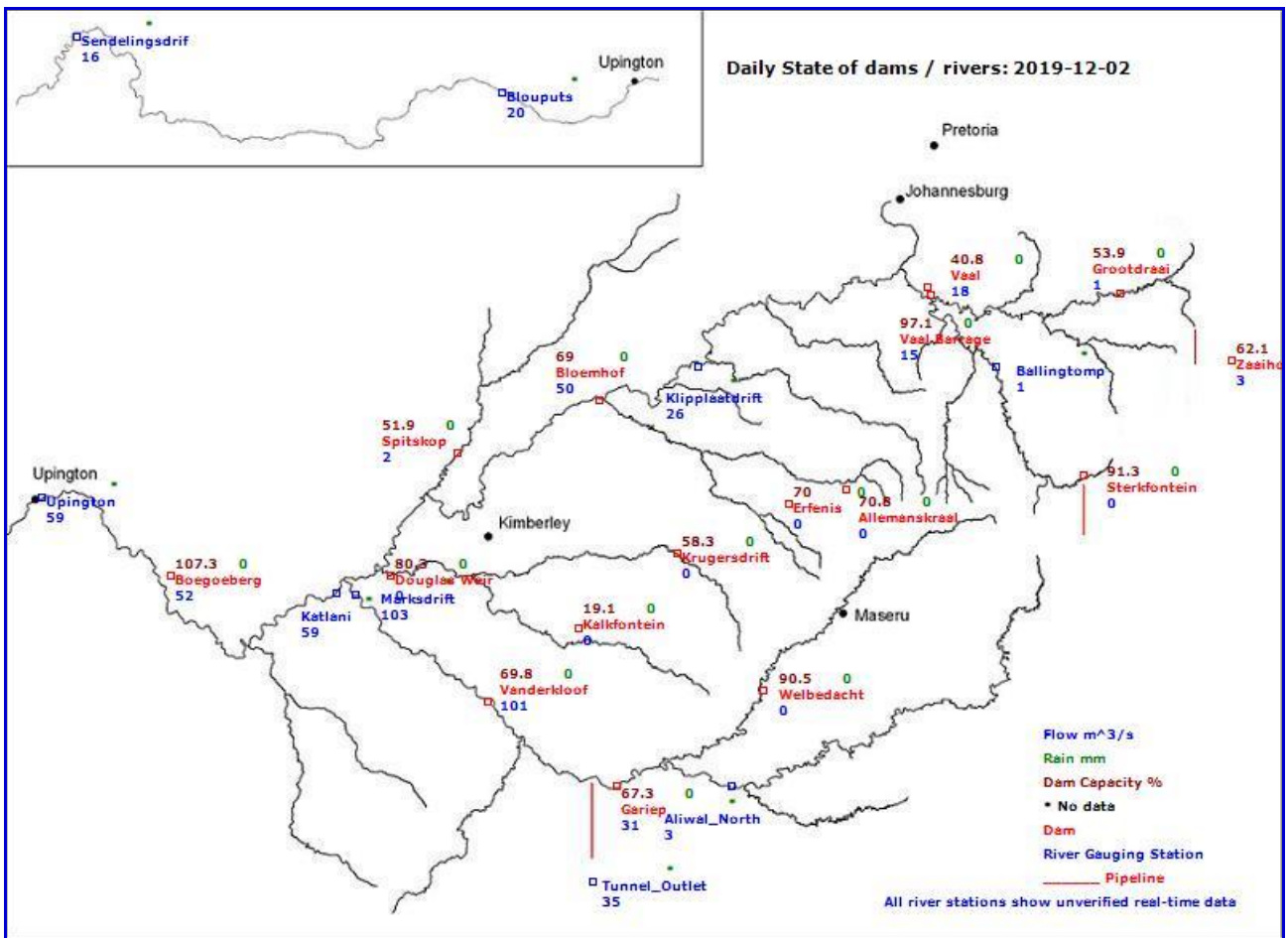


Figure 1: The position of Vaaldam in relation to Sasolburg and the Vaal Barrage downstream

A week of heavy rain from Wednesday 4 December to Tuesday 10 December over Gauteng caused events of flooding in Centurion and Mamelodi and loss of property and lives. Although it was thought that these rains would result in a significant increase in the levels of dams in the Vaal catchment system, numerous press releases painted a very negative picture, with no, or little increases in the levels expected. These rains however resulted in the Hartbeespoort dam overflowing with sluices being opened, and other dams such as the Bronkhorstspuit dam (114%), Bon Accord dam (108%), Roodeplaat dam (114%) exceeding their capacity levels.

Water inflow and percentage levels of the Vaal dam released on a daily basis by the Rand Water Board (www.reservoir.co.za) have shown the level of the Vaal dam decreasing to less than 40% during early December 2019 (Figures 2 & 3), with water inflow volumes ranging between 0 and 5m³/s during this period.

Between 9 and 10 December a rapid increase of water inflow into the Vaal dam was recorded by the Rand Water, increasing to approximately 225 m³/s in a matter of 24 hours (Figure 3). In the period 10 - 13 December, a stabilization in the inflow was recorded, but followed in the past two days by a rapid increase in flow to up to approximately 505 m³/s (Figure 5). If the increase in water level of the Grootdraai dam, upstream of the Vaal dam is compared on the 2nd and 13th of December, a significant increase of this dam is noted, increasing from 53.9% (Figure 2) to 107.2% (Figure 4). It is therefore a possibility that significant rain in the Grootdraai catchment may have resulted in this dam overflowing, and that excess water is flowing into the Vaal dam, resulting in the significant increase in inflow and subsequent increase in the level of the Vaal dam from 40.8% to 41.0%. Reports in the written and electronic media indicate a cautious approach that no false hope should be placed on the recent rains. Agreed yes, but it is however so disappointing that the full facts and figures aren't presented to the public in order for is to create an informed picture of a particular situation. A picture is sketched that no water is flowing into the Vaal dam, and that it's level is still declining. Isn't it as always, as with many other matters such as Eskom, just to name one, that the public is being treated like mushrooms?



Grootdraai Dam	53.9
Sterkfontein Dam	91.3
Vaal Dam	40.8
Bloemhof Dam	69.0
Gariep Dam	67.3
Van der Kloof Dam	69.8

Figure 2: State of Dams 2019-12-02 (www.dwa.gov.za)

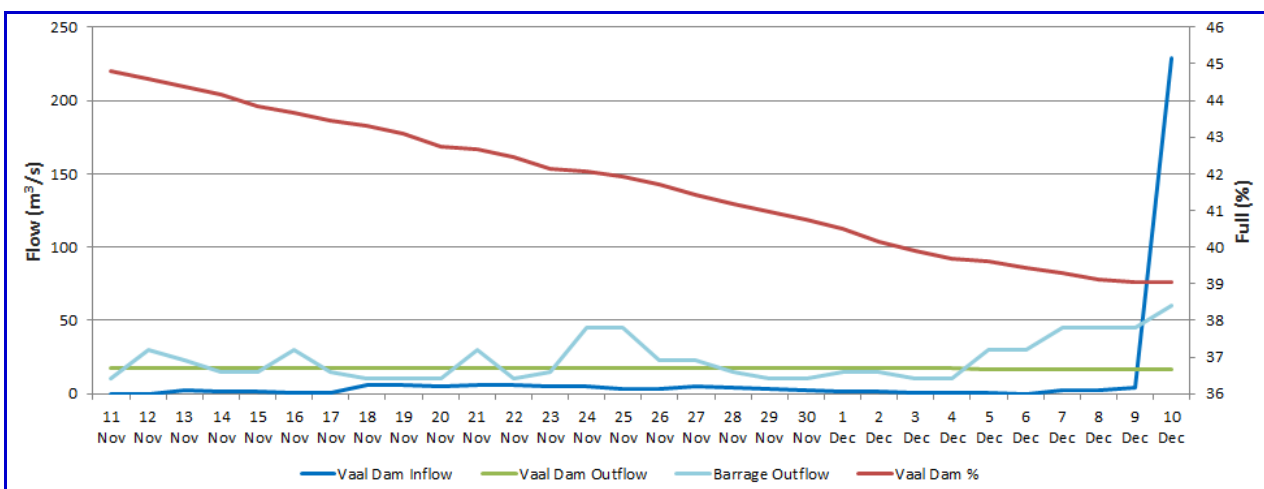
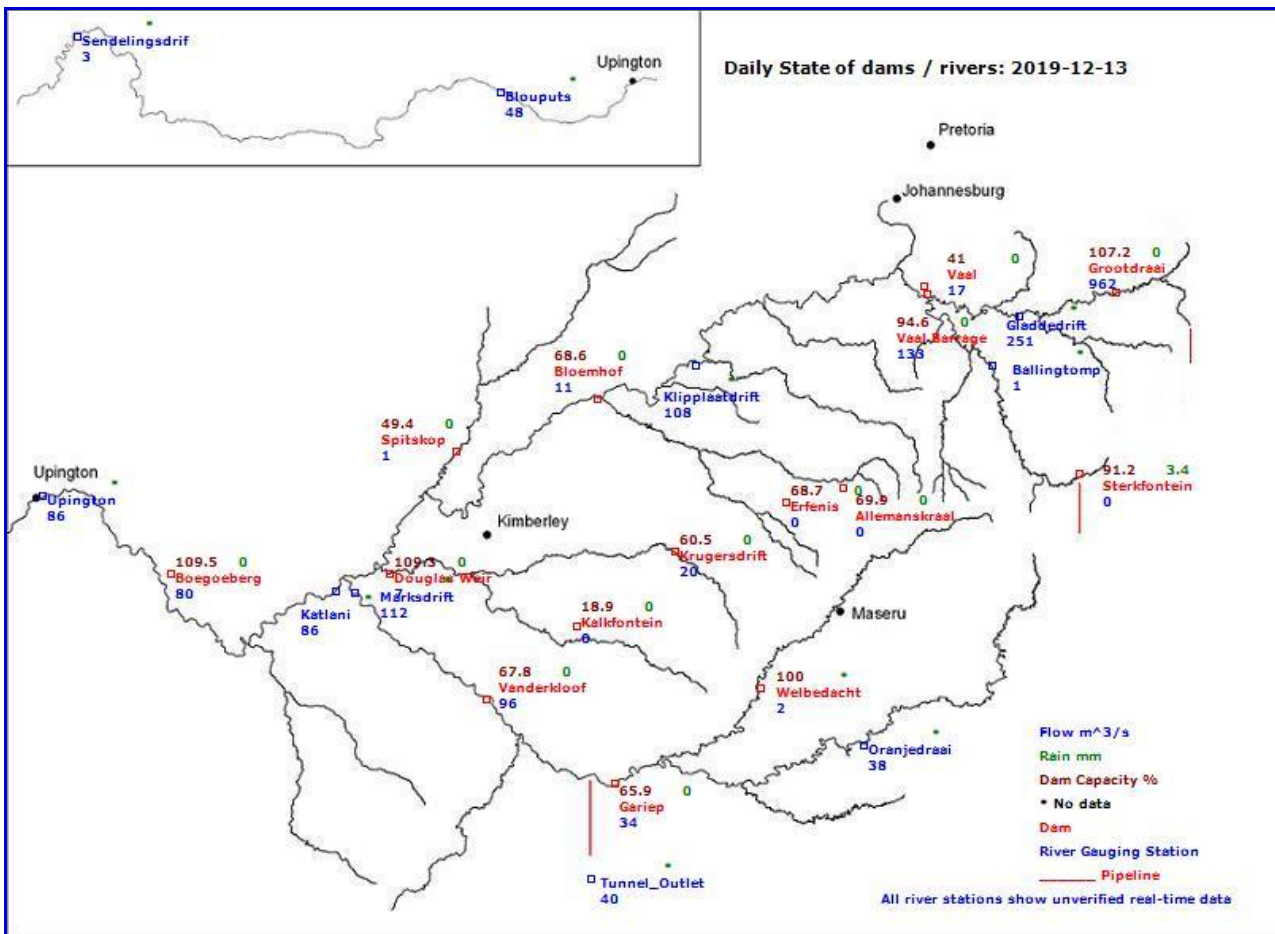


Figure 3: Daily flow (m^3/s) and percentage levels of Vaal Dam from 2019-11-11 to 2019-12-10 (reservoir.co.za)



Grootdraai Dam	107.2
Sterkfontein Dam	91.2
Vaal Dam	41.0
Bloemhof Dam	68.6
Gariiep Dam	65.9
Van der Kloof Dam	67.8

Figure 4: State of Dams 2019-12-13 (www.dwa.gov.za)

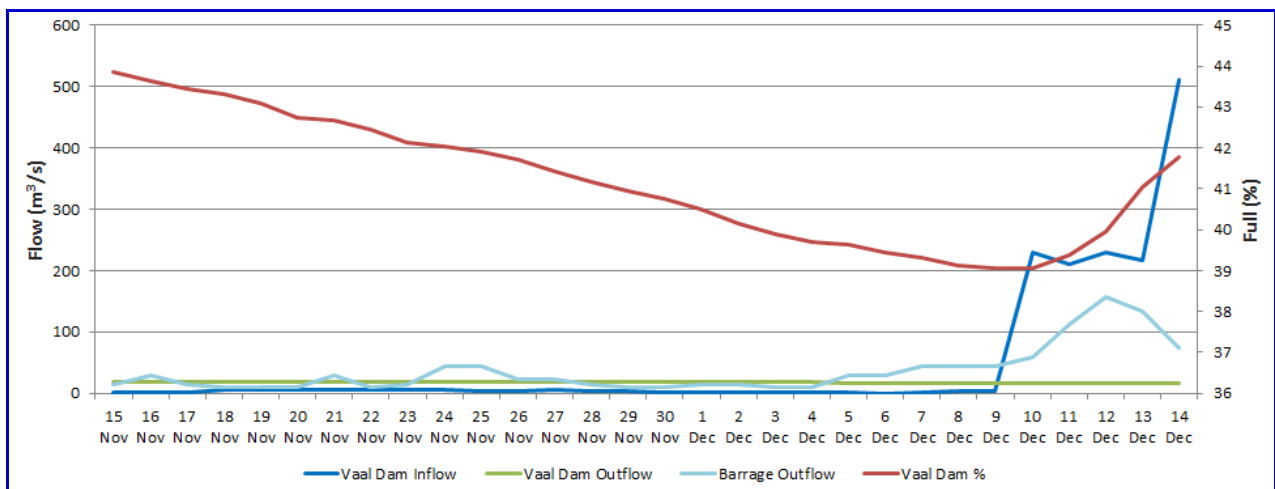


Figure 5: Daily flow (m³/s) and percentage levels of Vaal Dam from 2019-11-15 to 2019-12-14 (reservoir.co.za)

Long Term HF Propagation for January 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.

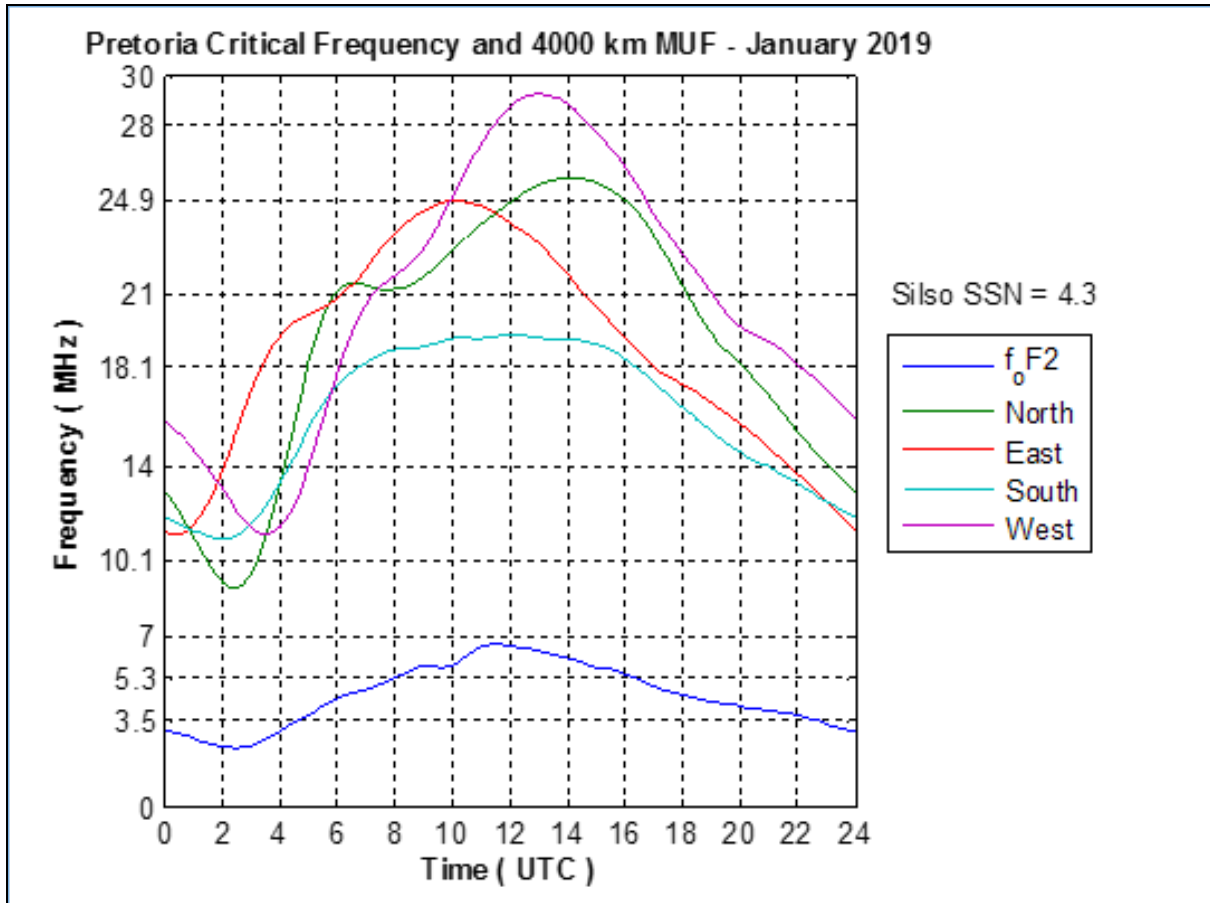
Long Distance Propagation: The MUF for a first hop of 4000 km in the cardinal directions is labeled North, East, South and West. They indicate the direction that propagation may be expected.

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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