



WATTS 11-2017

Year 87 + 11m

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 on Sundays / Sondag at 08:45

Relays: 1.840, 3.700, 7.066, 10.135, 14.235, 51.400, 438.825, 1297 MHz

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 19:45



Almero DuPisani ZS6LDP en Louis Roode ZS6AKD van die Kemptonpark Amateur Klub geniet elk 'n koppie warm koffie en 'n worsbroodjie voor die aanvang van die PARK vlooiemark wat Saterdag, die 26^{ste} Oktober plaasgevind het op 'n koue, bewolkte dag. Meer hieroor vanaf bladsy 4

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Club Meetings / Klub Vergaderings

Club Social Meeting :

There will be no Club Meetings for the remainder of 2017. Dates for Club Meetings and Fleamarkets will be published in the January 2018 Edition of Watts

Birthdays November / Verjaarsdae - November

06 Sollie Conradie ZS6SV
12 Fritz Sutherland ZS6SF
16 Vlasta Jancuskova ZS6-2501

16 Pierre Duminy ZS6FPS
25 Tony Crowder ZS6CRO

Spouse's Birthdays November / Gade Verjaardae - November

No Spouse's birthdays during November

Anniversaries November / Herdenkings - November

14 Sylvia en Tjerk Lammers ZS6P (Erelid)
28 Maria and Ivri Hamalainen ZR5AAE

Birthdays December / Verjaarsdae - Desember

01 Pieter Fourie ZS6CN
07 Tim Meyer ZS6TIM
07 Hansie Meyer ZS6AIK
08 Nielmari Wilson ZS6NMW
08 Hans Kappetijn (Hon Mem) ZS6KR

15 Almero Du Pisani ZS6LDP
27 Pierre Britz ZR6ADZ
28 Allan de Souza ZS6AVC
30 Hans van de Groenendaal ZS6AKV

Spouse's Birthdays December / Gade Verjaardae - Desember

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

Anniversaries December / Herdenkings - Desember

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

Lief en Leed / Joys and Sorrows

Andre Coetzee ZS6AGC has recovered in hospital following a bullet wound during a robbery at his home. We wish Andre all the best.
Erna, gade van Whitey Joubert herstel van 'n voetoperasie. Ons wens haar alle sterkte toe.

PARC Bulletins / PARK 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 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.

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.

PARC Bulletin Presenters : November - December 2017			
Date	Presenter	Date	Presenter
15 October 2017	Etienne Naude ZS6EFN	26 November 2017	Johan du Bruyn ZS6JHB
22 October 2017	Tjerk Lammers ZS6P	03 December 2017	Louis de Wet ZS6SK
29 October 2017	Johan du Bruyn ZS6JHB	10 December 2017	Etienne Naude ZS6EFN
05 November 2017	Almero du Pisani ZS6LDP	17 December 2017	Almero du Pisani ZS6LDP
12 November 2017	Etienne Naude ZS6EFN	24 December 2017	Johan du Bruyn ZS6JHB
19 November 2017	Almero du Pisani ZS6LDP	31 December 2017	Louis de Wet ZS6SK

Please do contact Etienne Naude ZS6EFN for more information or any Bulletin arrangements

PARC SUBS : PARK LEDEGELD : FROM / VANAF : 30-06-2017			
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 Committee Members Contact Details / Komiteelede Kontakbesonderhede : 2017 - 2018

<u>Elected Members</u>	<u>Name</u>	<u>Callsign</u>	<u>Email Address</u>	<u>Tel No</u>	<u>Mobile No</u>
Chairman, Web co-ordination	Graham Reid	ZS6GJR	greid@wol.co.za	012-667-2720	083-701-0511
Vice Chairman, Treasurer & Rallies	Johan de Bruyn	ZS6JHB	zs6jhb@gmail.com	012-803-9418	079-333-4107
RAE Training, Bulletins & SARL Liaison	Etienne Naude	ZS6EFN	etienne@afgrid.com	012-661-6745	082-553-0542
Club Secretary	Irene Myburgh	ZS6IEA	irene@srsa.gov.za	012-304-5109	082-462-6001
Social & Contests	Whitey Joubert	ZS6JJJ	zs6jjj@gmail.com	012-993-2267	072-120-4516
Watts Newsletter & RAE Assistance	Louis de Wet	ZS6SK	louis.zs6sk@gmail.com	012-349-1044	072-140-9893
Youth Development & Competitions	Nic Louw	ZS6NWL	nic.louw@telkomsa.net		083-596-1026
RAE Training & Technical	John Minter	ZS6LED	john.minter.za@gmail.com	012-349-0019	083-291-5422
<u>Co-Opted Members</u>	<u>Name</u>	<u>Callsign</u>	<u>Email Address</u>	<u>Tel No</u>	<u>Mobile No</u>
Fleamarkets	Alméro Dupisani	ZS6LDP	almero.dupisani@up.ac.za	012-420-3779	083-938-8955
Auditor	Tony Crowder	ZS6CRO	tcrowder@telkomsa.net	011-672-3311	

Contests and Diary of Events - November 2017 / Kompetisies en Dagboek van Gebeure - November 2017 (UTC Times)

04	RaDAR Challenge
05	PEARS HF DX Contest
04 - 05	Ukranian DX Contest : 12h00 - 12h00
11 - 12	WAE DX Contest, RTTY : 00h00 - 23h59
11 - 12	OK/OM DX Contest, CW : 12h00 - 12h00
13	RSGB 80m Autumn Series, Data : 20h00 - 21h30
18	Antique Wireless Association of South Africa AGM and Flea Market : 08h00 - 12h00
18 - 19	SARL Field Day Contest : 10h00 - 10h00
18	RSGB 2 nd 1.8MHz Contest, CW : 19h00 - 23h00
22	RSGB 80m Autumn Series, SSB : 20h00 - 21h30
25	SARL Newbie Sprint
25 - 26	CQ Worldwide DX Contest, CW : 00h00 - 24h00
30	RSGB 80m Autumn Series, CW : 20h00 - 21h30
Contests and Diary of Events - December 2017 / Kompetisies en Dagboek van Gebeure - Desember 2017 (UTC Times)	
01	Start of YOTA Month
01 - 03	ARRL 16-Meter Contest : 22h00 - 16h00
03	SARL Digital Contest : 13h00 - 16h00
09 - 10	ARRL 10-Meter Contest : 00h00 - 24h00
15	Russian 160-Meter Contest : 20h00 - 24h00
15	OK DX RTTY Contest : 00h00 - 24h00
16 - 17	Croatian CW Contest : 14h00 - 14h00
31	End of YOTA Month
More information can be obtained from the SARL website, as well as the WA7BNM contest calendar at the following website: http://hornucopia.com	

Antique Wireless Association : Annual General Meeting

Notice is given of the AWA AGM to be held at the South African Institute of Electrical Engineers (SAIEE) in Observatory on Saturday, the 18th of November 2017.

The program for the event is as follows:

08h00 - 10h00 : running the shack and museum visits

10h00 - 11h00 : Annual General Meeting

11h00 - 14h00 : Braai and fleamarket (Braai packs and cold drinks will be on sale)

Tables will be available for anyone wishing to display goods for sale or for display purposes.

We look forward to seeing as many as possible at this gathering.

Jacques Scholtz ZS6JPS (061 785 0972) / www.awasa.org.za

PARC Fleamarket ; PARK Vlooiemark

Die laaste vlooiemark vir 2017 het plaasgevind op 'n koue en bewolkte Saterdag, die 26^{ste} Oktober. Ondanks die trietsige weer was die opkoms was die opkoms baie goed en was daar talle lede van ander klubs teenwoordig. Nico van Rensburg ZS6QL, President van die Suid Afrikaanse Radioliga het ook lekker saamgekuier. Natuurlik was daar verskeie tafels met interessante toerusting en komponente te koop.

PARK bedank hiermee graag Almero DuPisani ZS6LDP en Johan du Bruyn ZS6JHB vir hul reelings met die vlooiemark, en ook in besonder Whitey Joubert ZS6JJJ en sy gade Erna, Sarel Stapelberg ZS6EK en gade Karen, en Kenny Martin ZS6KMM en gade Paddy, vir hul harde werk en bediening van die heerlike worsbroodjies. Die datums vir die 2018 vlooiemarkte sal in Januarie bekend gemaak word.

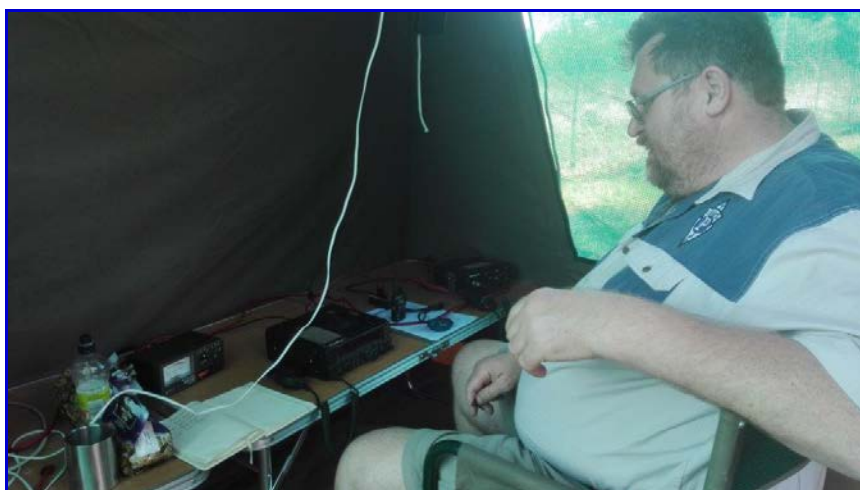




Jota-Joti 2017 : by Pierre Holtzhausen ZS6PJH

On Friday, the 20th of October Pierre Duminy ZS6FPS and myself arrived at the Colbyn Scout Hall and started preparing for the Jota-Joti 2017 event that was about to start from 08h00 the Saturday morning.

There it was decided that we were only going to be running with the Carolina Windom 40 antenna, and this being an off-center fed window, had to have the top radiator at 30°, at a height of about 9.1m. Not so easy, as most my masts are only 6m in length. Luckily I found an old Link Stick (ex ZS6KO) and a newer fiberglass mast from Mark ZS6USA at 9.1m. Willie Greyling ZR6WGR arrived with two PA systems, while Pierre Smit ZS6PS arrived with his two-wheeler and immediately started to give a hand. The third mast turned out to be the 8m tall climbing wall from the Scouts, with a 1.5m extension added after sunset on Friday.



Pre antenna mount exercise The tent shack: Pierre ZS6PJH operating

Then Pierre Smit disappeared for about two hours to fetch his SW, Corlie, and his Bush Trailer. Not long after the antenna went up, the lightning and heavenly rains started. Outie Dorfling ZS6LMD, our night owl operator arrived. We waited for a few hours for the weather to improve, but around 20h00 we retired to the fire to cook some steak for dinner and went off to bed.



Cubs and their troop leader



Luxury accommodation

Sometime in the small hours of the morning a pine cone dropped from the 20m plus Pine tree onto my tiny van and almost made me jump out of my skin!

Saturday morning we had a quick breakfast and just after sunrise got the top part of the CW40 as straight as possible. We could hear a few stations on 80m but as the CW40 only work for 40m, we moved up, but conditions were up and down. By this time I had also ascertained that the pine cone bomb from the night before did not do any permanent damage.



Accommodation and shack



What are we talking about?



The Cubs listening attentively to Pierre



Ham Corner

Then our first troop arrived, the cubs, 7 to 9 years old. We told them about what Amateur Radio is, and what we do. Then we moved to the radio to find some other Scout Troops for them to talk with. Then ZS6WZ, ZS6HB, Helgi ZS5AC, Gerald ZS5GS and ZS5NHK from Hattingh Spruit arrived with Scout Troops from Newcastle and Ladysmith. Johan ZR5JF, Lukas ZS6LH and Koos ZS5KDK also arrived, bringing some scouts from Howick with them. Evan Seligman ZS6ELI from PARC also arrived and spend some time with us.



Throughout the day we made a lot of contacts, but mostly it was let to the Scouts to have a chat with each other. During the day, most of our contacts were made with Scouts from Pietermaritzburg and Durban. We also made contact with the Sandringham group, and could hear V55YOTA. Unfortunately they were mostly beaming beaming towards the USA, and did not hear us. Instead, we were able to make contact with Wynand V51WW.

John Minter ZS6LED arrived at noon, and spend a number of hours behind the microphone finding contacts for the youngsters. Later in the afternoon the stream of Scouts dwindled and we started taking it easy.

Sunday morning we were listening to a crystal clear 40m and worked a few more SCOUTS after the Bulletins. Around 12 o'clock we started packing, had lunch and were at home by 16h00. A great weekend and hopefully some RAE candidates in the near future.

73, de ZS6PJH
Pierre Holtzhausen

Jota-Joti Colbyn Badge

ZS6JSJ bou sy eie antennes

“JJ” het sy werkstuk kom wys by die QTH van ZS6KR met die doel om kennis op te doen oor rotasie stelsels vir die 6 element yagi. Terwyl hy daar was het laasgenoemde dit nodig geag om die fotos te neem om ook ander (nuwe) amateurs aan te spoor om te wys dat jy kan ver kom met n paar stukke aluminum en n bietjie vernuf. Baie geluk “JJ”!



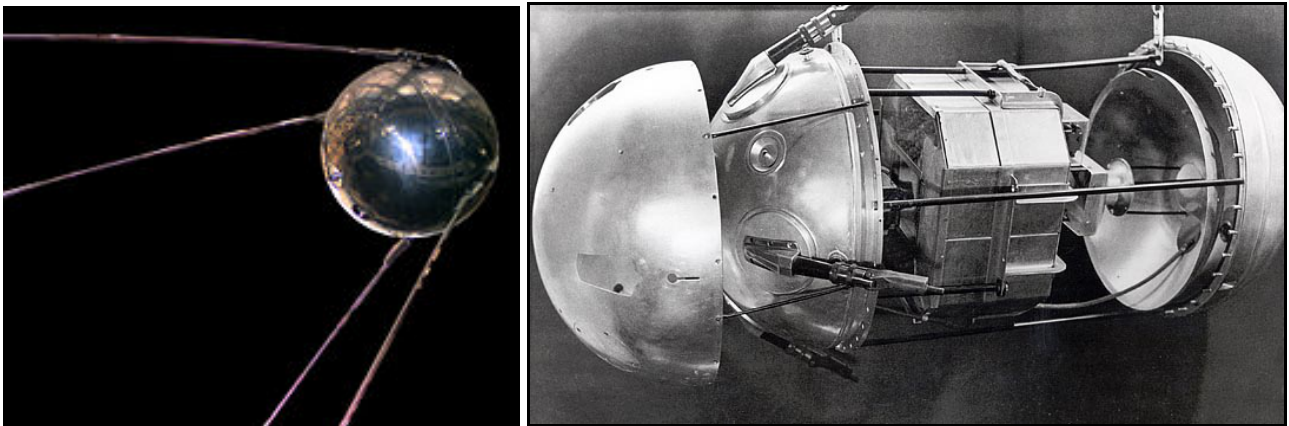
Die SCC Carnival City Tydren

Die Carnival City tydren wat tussen Brakpan en Heidelberg plaasgevind het vanaf 20 tot 21 Oktober, was die laaste geleentheid vir 2017. Soos gewoonlik het lede van PARC 'n aksievolle tyd gehad met radio ondersteuning by die verskeie trajekte, wat 13 in total was oor die twee dae. Graham Reid ZS6GJR en Joey het die beheerstasie beman, terwyl Tony Crowder ZS6CRO by Mobil 1, en Menno Havelaar ZS6AGC by Kar 0 diens verrig het. Chris Barnard ZS6MBC was die hoofbeampte, terwyl Irene Myburg ZS6IEA saam met die mediese personeel beweeg het. Veldstasies is beman deur Johan ZS6JHB, Pieter Fourie ZS6CN, Pieter Myburgh ZS6PAM en Louis ZS6SK. Die rooster vir tydrenne gedurende 2018 sal in die Januarie uitgawe van Watts verskyn.



The Legacy of Sputnik 1

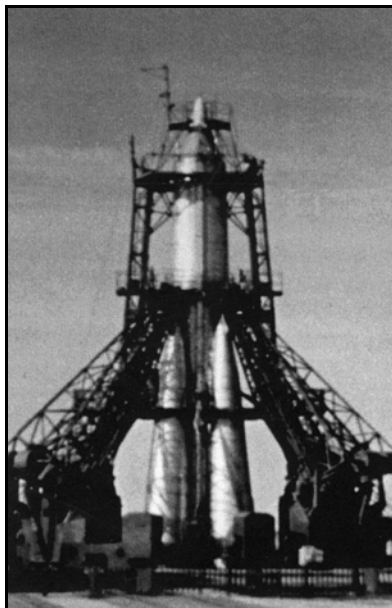
On the 4th of October 1957, under the directives of Premier Nikita Khrushchev, Soviet engineers started the Space Race when they launched Sputnik 1, the first orbiting satellite which made a total of 1400 orbits before re-entering the earth's atmosphere on January 4th 1958. In an article in the October Issue of the QST Magazine, author Dennis Lazar W4DNN states that the Soviets were just not satisfied making newspaper headlines, but opted to target Amateur Radio to maximize the effect of their efforts. Subsequently, Sputnik's two 1 Watt transmitters send un-modulated CW pulses of 0.4 seconds on both 20.005 MHz and 40.002 MHz so that the old shortwave receivers would be able to heterodyne these signals to produce an audible tone. These specific frequencies were selected, because many Radio Hams were using receivers dating back to World War II.



Sputnik 1 with a set of whip antennas and expanded view



Head Engineer Sergei Korolev



Sputnik's R-7 Launch Vehicle

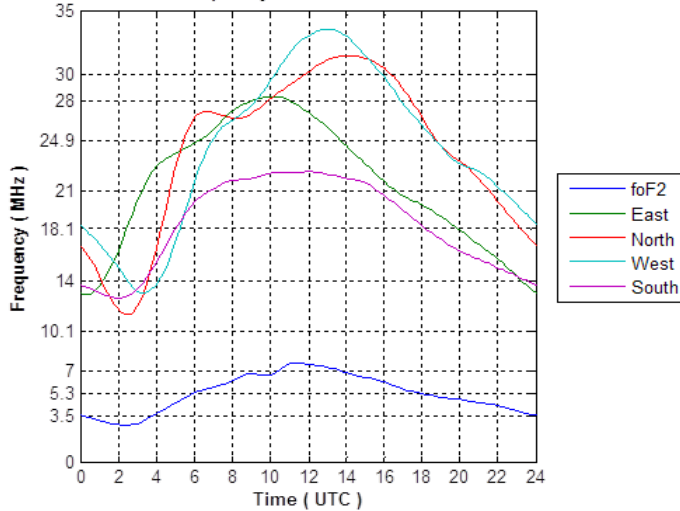


Soviet space race propaganda

Launched from what is now known as the Baikonur Cosmodrome in Kazakhstan, Sputnik (translated as “fellow traveler”) orbited the earth at a height of 500 miles. As the tiny 23-inch diameter satellite orbited Earth every 96.2 minutes at a velocity of 18 000 miles per hour, it's signals could be heard at distances of up to 15 000 miles. In 21 days, it achieved 1 440 orbits until the batteries died on the 26th of October.

The dawn of the Space Age started by the launch of Sputnik 1, and introduced a new phase in the Cold War. On a daily basis, breakthroughs in space science followed, which included Explorer 1, which discovered the Van Allen radiation belts around the Earth. Ultimately, this led to the creation of the National Aeronautics and Space Administration (NASA), and the race for the Moon.

Pretoria Critical Frequency and 4000 km MUF - November 2017



Long Term HF Propagation for November 2017

DX Operating

The graph shows the 4000 km maximum useable frequency (MUF) to the East, North, West and South from Pretoria for the first hop using the F2 layer.

Local Operating

The F2 critical frequency (foF2) is the maximum F-layer frequency for short range communications.

For worldwide propagation see:

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

Courtesy Vincent ZS6BTY

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

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Selected Soviet postage stamps celebrating the launch of Sputnik 1 on the 4th of October 1957

