

# WCRWG Status Report:

2018-01-16

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## **Notes and Updates since last report**

1. Jan (ZS1VDV) and John (ZS1EQ) did a round trip to service 3 high sites, Piketberg, Hawequa and Bottelary. At Piketberg the duplexer was swapped out and the VHF repeater was reinstalled. At Hawequa, the 10A PSU was replaced with a 7A PSU. At Bottelary, the UHF DMR repeater was removed for servicing. The full details are posted on the WCRWG website.

## **Donations received since last report.**

1. It has been **6 weeks** since the last donation was reported.

## **General requirements: upgrade and maintenance program**

1. Cash donations
2. High quality N-type male and female connectors for ½" heliax
3. VHF and UHF ferrite circulators.



## **Repeater Information and Status**

Repeater status is usually one of **DOWN**, **Operational** or **Testing**.

145.575	<b><i>Bottelary</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.575 / Input: 144.975 (ZU9DBI_C)
<b>Mode</b>	D*STAR (6K0F7W - GMSK)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	Set RPT1 as ZU9DBI_C, RPT2 as ZU9DBI_G – replace _ with space.
<b>Links</b>	Internet – ZU9DBI_G gateway
<b>Notes</b>	The repeater has a 3 minute transmit timer with an approximate 30 second lockout penalty. This is a factory setting in the controller. Users are advised to set a transmit timeout in their radios of less than 3 minutes.

145.600	<b><i>Hanskop (Sir Lowry's Pass)</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.600 (88.5) / Input: 145.000 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	The repeater does not return to the correct channel after a long power outage when the UPS runs down. VHF and/or UHF repeater dropouts reported on audio from Jonaskop.
<b>Site specific requirements</b>	None
<b>Links</b>	1. Link to Jonaskop/145.675 operational.
<b>Notes</b>	DTMF codes are published on the WCRWG website

145.625	<b><i>Piketberg</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.625 (88.5) / Input: 145.025 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	1. Link to Hawequas/145.650 operational
<b>Notes</b>	DTMF codes are published on the WCRWG website

145.650	<i>Hawequas (Du Toitskloof Pass)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.650 (88.5) / Input: 145.050 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	Big power spikes and outages reported. Audio problem from controller to VHF repeater. No CTCSS output as a result of commercial breakthrough. External temperature sensor faulty.
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Link to Hanskop/434.600 operational 2. Link to Piketberg/145.625 operational
<b>Notes</b>	DTMF codes are published on the WCRWG website

145.650	<i>Riversdale</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.650 / Input: 145.050
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Link to Jonaskop/145.675 operational 2. Link to George/145.700 operational
<b>Notes</b>	

145.675	<i>Jonaskop (Villiersdorp)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.675 (88.5) / Input: 145.075 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	Interference reported – cause still being isolated.
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Link to Hanskop/145.600 operational 2. Link to Riversdale/145.675 operational
<b>Notes</b>	DTMF codes are published on the WCRWG website

145.700	<i>Constantiaberg</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.700 (88.5) / Input: 145.100 (88.5)
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	Antenna upgrade being planned.

145.700	<i>George</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.700 / Input: 145.100
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	Linked via 438.725MHz repeater at Dana Bay
<b>Notes</b>	DTMF codes are published on the WCRWG website.

145.725	<i>Hermanus (Onrusberg)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.725 / Input: 145.125
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	Link to Hanskop.
<b>Notes</b>	

145.750	<i>Kanonkop (Tygerberg)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 145.750 (88.5) / Input: 145.150
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

434.650	<i>Hanskop (Sir Lowry's Pass)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 434.650 / Input: 433.050
<b>Mode</b>	Analogue FM-N (11K0F3E)
<b>Faults Reported</b>	Low audio on 434.650 from link. Interference reported.
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Link to Hawequas/145.650 operational
<b>Notes</b>	Change of frequency from 434.600/433.000 necessitated by interference.

434.625	<i>Kanonkop (Tygerberg)</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 434.625 (88.5) / Input: 433.025
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	IRLP/Echolink currently disabled pending computer repairs.
<b>Site-specific requirements</b>	None
<b>Links</b>	1. IRLP node 8535 2. Echolink node 796398 (ZU9DCM-R), using EchoIRLP modification.
<b>Notes</b>	Dial-out to other Echolink nodes requires the use of a dial prefix, currently *0 (star-zero), as it is an add-on to IRLP. The disconnect code for a call is '73' – use this for both Echolink and IRLP calls.

438.725	<i>Dana Bay</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 438.725 / Input: 431.125
<b>Mode</b>	Analogue FM (16K0F3E)
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Linked to George, Riversdale
<b>Notes</b>	

438.300	<i>Bottelary</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 438.300 / Input: 430.700
<b>Mode</b>	1 - DMR (7K60FXD/E - 4FSK) 2 - D*STAR (6K0F7W – GMSK) 3 – Yaesu System Fusion (11K2F7W - C4FM)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	For D*STAR, set RPT1 as ZU9DBI_B, RPT2 as ZU9DBI_G – replace “_” character with a space.
<b>Links</b>	Internet – ZU9DBI_G gateway
<b>Notes</b>	The repeater will autodetect modes as long as no other mode is operational.

438.350	<i>Helderberg</i>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 438.350 / Input: 430.750
<b>Mode</b>	DMR (7K60FXD/E - 4FSK)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	
<b>Links</b>	
<b>Notes</b>	

<b>ZS0DCC</b>	<b><i>Helderberg Digipeater</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 144.800 / Input: 144.800
<b>Mode</b>	Digital FM-N (11K0F2D) AFSK
<b>Faults Reported</b>	
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	

<b>ZS0DZ</b>	<b><i>Kasteelberg Digipeater</i></b>
<b>Status</b>	<b>DOWN</b>
<b>Frequencies and Tones</b>	Output: 144.800 / Input: 144.800
<b>Mode</b>	Digital FM-N (11K0F2D) AFSK
<b>Faults Reported</b>	
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	Digipeater has been powered off pending deployment decision.

<b>ZS1TWO</b>	<b><i>2-Meter Beacon (Lower Burg St)</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	144.435
<b>Mode</b>	CW
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	20W into a 5-element beam antenna pointing around 50 degrees (NE)

<b>ZS1SIX</b>	<b><i>6-Meter Beacon (CPUT)</i></b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	50.080
<b>Mode</b>	FSK
<b>Faults Reported</b>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Notes</b>	None



Send fault reports via e-mail to: [wc-repeater-fault@googlegroups.com](mailto:wc-repeater-fault@googlegroups.com)

To receive the weekly report direct via e-mail, subscribe to: [wc-repeater-announcements@googlegroups.com](mailto:wc-repeater-announcements@googlegroups.com). You can subscribe by sending an e-mail message to [wc-repeater-announcements+subscribe@googlegroups.com](mailto:wc-repeater-announcements+subscribe@googlegroups.com).

The WCRWG has a new website packed full of information on all the repeaters and detailed reports of activities. You can access this website via the link <http://www.wcrwg.co.za/>

### **Account Information**

Account Name: Western Cape Repeater Working Group (WCRWG)

Bank: FNB

Account type: Cheque

Account number: 62338034937

Branch code: 250655 (Electronic payments)

Branch code: 200612 (Counter deposits)