

# WCRWG Status Report:

2017-10-03

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## Notes and Updates since last report

1. On Wednesday 27 September at about 16:30, Paul ZS1V, Jan ZS1VDV and Wiaan ZS1WB met a representative of our Internet sponsor at the Helderberg high site to install one of the WCRWG Motorola SLR5500 DMR repeaters. Full report is on the WCRWG website. The repeater details have been added to this report.

## Donations received since last report

1. None reported
2. It has been **8 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>	Reduced coverage due to temporary antenna mounting. Tower was destroyed by storm.

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>	
<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>	The repeater will autodetect modes as long as no other mode is operational.

<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)