

WCRWG Status Report: 2021-01-06

Notes and Updates since last report

1. On 29 December 2020, Jan ZS1VDV and Melissa ZS1MEL went to Bottelary to investigate the DMR repeater outage. Full report at <http://wcrwg.co.za/2020/12/29/maintenance-bottelary-20201229/>

Donations received since last report.

1. A cash donation was received from Chris Gozzard ZS1CDG on 2020-12-30.
2. A cash donation was received from Hendrik Visagie ZS1EEE on 2020-12-31.
3. A cash donation was received from Mario Tiran ZS1AMT on 2021-01-02.

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**.

<i>145.575</i>	<i>Bottelary</i>
Status	Operational
Frequencies and Tones	Output: 145.575 / Input: 144.975 (ZU9DBI_C)
Mode	D*STAR (6K0F7W - GMSK)
Faults Reported	None
Site specific requirements	Set RPT1 as ZU9DBI_C, RPT2 as ZU9DBI_G – replace _ with a space.
Links	Internet – ZU9DBI_G gateway – default linked to TG655
Notes	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.

<i>145.600</i>	<i>Hanskop (Sir Lowry's Pass)</i>
Status	Operational
Frequencies and Tones	Output: 145.600 (88.5) / Input: 145.000 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	None
Site specific requirements	None
Links	Link to Jonaskop/145.675 operational.
Notes	DTMF codes are published on the WCRWG website

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

<i>145.650</i>	<i>Hawequas (Du Toitskloof Pass)</i>
Status	Operational
Frequencies and Tones	Output: 145.650 (88.5) / Input: 145.050 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	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.
Site-specific requirements	None
Links	<ol style="list-style-type: none"> 1. Link to Hanskop/434.600 operational 2. Link to Piketberg/145.625 operational
Notes	DTMF codes are published on the WCRWG website

<i>145.650</i>	<i>Riversdale</i>
Status	Operational
Frequencies and Tones	Output: 145.650 / Input: 145.050
Mode	Analogue FM (16K0F3E)
Faults Reported	None
Site-specific requirements	None
Links	<ol style="list-style-type: none"> 1. Link to Jonaskop/145.675 operational 2. Link to George/145.700 disconnected due to low audio.
Notes	

<i>145.675</i>	<i>Jonaskop (Villiersdorp)</i>
Status	Operational
Frequencies and Tones	Output: 145.675 (88.5) / Input: 145.075 (88.5)
Mode	Analogue FM-N (11K0F3E)
Faults Reported	None
Site-specific requirements	None
Links	<ol style="list-style-type: none"> 1. Link to Hanskop/145.600 operational. 2. Link to Riversdale/145.650 operational
Notes	DTMF codes are published on the WCRWG website

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

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

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

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

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

<i>434.625</i>	<i>Kanonkop (Tygerberg)</i>
Status	Operational
Frequencies and Tones	Output: 434.625 (88.5) / Input: 433.025
Mode	Analogue FM (16K0F3E)
Faults Reported	IRLP/Echolink currently disabled pending computer repairs.
Site-specific requirements	None
Links	1. IRLP node 8535 2. Echolink node 796398 (ZU9DCM-R), using EchoIRLP modification.
Notes	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.

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

<i>438.300</i>	<i>Bottelary</i>
Status	Operational
Frequencies and Tones	Output: 438.300 / Input: 430.700
Mode	1 - DMR (7K60FXD/E - 4FSK) 2 - D*STAR (6K0F7W – GMSK) 3 – Yaesu System Fusion (11K2F7W - C4FM)
Faults Reported	None
Site specific requirements	For D*STAR, set RPT1 as ZU9DMR_B, RPT2 as ZU9DMR_G – replace “_” character with a space.
Links	Internet – ZU9DMR_G gateway, currently unlinked due to no Internet
Notes	The repeater will autodetect modes as long as no other mode is operational.

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

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

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

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

Send fault reports via e-mail to: wc-repeater-fault@googlegroups.com

To receive the weekly report direct via e-mail, subscribe to: wc-repeater-announcements@googlegroups.com. You can subscribe by sending an e-mail message to 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/>

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Any notes, updates, incidents or donations are to be sent by e-mail to 'zs1bsd@gmail.com' to reach that mailbox no later than 16:00 SAST on the Tuesday of publication of the report. Any information received after that will be held over to the following report.

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)