

# WCRWG Status Report: 2023-02-07

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

1. This and previous reports can be found at <http://wcrwg.co.za/category/status-report/>
2. Onrusberg 145.725 is down due to simultaneous grid power and backup generator failures. Backup batteries are depleted;

## **Donations received since last report**

1. Cash donation Mario Tiran ZS1AMT, received on 1 February;

## **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;
4. N-type F-F Lightning Protection units;

**Scheduled repeater usage**

Please be aware of the following scheduled use of the specified repeaters and, **except for emergency traffic**, kindly keep them clear for these activities. Times are given in SAST.

USE	USER	AFFECTED REPEATERS		FROM	TO	ON	NOTES
Net	CTARC	145.750	Kanonkop	20.00	21.00	Mondays	CT Net
Bulletin	HWC	145.750	Kanonkop	19.30	20.30	Wednesdays	Except the first Wednesday of each month
		145.625	Piketberg				Link system partitioned at Brenton-on-Sea
		434.650	Hanskop				
		145.725	Onrusberg				
		145.675	Jonaskop				
		145.650	Riversdal				
		145.700	George				
Bulletin	BARK	145.625	Piketberg	09.30	10.30	Sundays	Link system partitioned at Brenton-on-Sea
		145.650	Hawequa				
		434.650	Hanskop				
		145.600	Hanskop				
		145.725	Onrusberg				
		145.675	Jonaskop				
		145.650	Riversdal				
		145.700	George				
Bulletin	CTARC	145.750	Kanonkop	08.30	09.30	Sundays	SARL bulletin followed by club bulletin
Bulletin	ZS1F	145.750	Kanonkop	10.00	11.00	Sundays	Amateur Radio Today

## **Repeater Information and Status**

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

<b>145.575</b>	<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 a space.
<b>Links</b>	Internet – ZU9DBI_G gateway – default linked to TG655
<b>Power</b>	Eskom mains (zone 10/14 ?); battery backup with mains recharge
<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.

<b>145.600</b>	<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>	None
<b>Site specific requirements</b>	None
<b>Links</b>	<ol style="list-style-type: none"><li>1. Link to Jonaskop/145.675 operational</li><li>2. Link to Onrusberg/145.725 operational</li></ol>
<b>Power</b>	Eskom mains (zone 5); battery backup with mains recharge
<b>Notes</b>	DTMF codes are published on the WCRWG website

<b>145.625</b>	<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>	Link to Hawequas/145.650 operational
<b>Power</b>	Eskom mains (zone 15?); Sentech generator backup
<b>Notes</b>	DTMF codes are published on the WCRWG website

<b>145.650</b>	<b><i>Hawequas (Du Toitskloof Pass)</i></b>
<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>	<ol style="list-style-type: none"> <li>1. Link to Hanskop/434.650 operational</li> <li>2. Link to Piketberg/145.625 operational</li> </ol>
<b>Power</b>	Eskom mains (zone 11); battery backup with solar recharge
<b>Notes</b>	DTMF codes are published on the WCRWG website

<b>145.650</b>	<b><i>Riversdale</i></b>
<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>	<ol style="list-style-type: none"> <li>1. Link to Jonaskop/145.675 operational</li> <li>2. Link to George/145.700 <b>DOWN</b></li> </ol>
<b>Power</b>	Eskom mains (zone 2/4?)
<b>Notes</b>	

<b>145.675</b>	<b><i>Jonaskop (Villiersdorp)</i></b>
<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>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	<ol style="list-style-type: none"> <li>1. Link to Hanskop/145.600 <b>DOWN</b></li> <li>2. Link to Riversdale/145.650 <b>DOWN</b></li> </ol>
<b>Power</b>	Eskom mains (zone 4); battery backup with solar recharge
<b>Notes</b>	DTMF codes are published on the WCRWG website

<b>145.700</b>	<b>Constantiaberg</b>
<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>Power</b>	Eskom mains (zone ?); Sentech generator backup
<b>Notes</b>	Antenna upgrade being planned.

<b>145.700</b>	<b>George</b>
<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>	Link to Dana Bay/438.725MHz operational
<b>Power</b>	Eskom mains (zone?); battery backup with mains recharge
<b>Notes</b>	DTMF codes are published on the WCRWG website.

<b>145.725</b>	<b>Hermanus (Onrusberg)</b>
<b>Status</b>	<b>DOWN</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/434.650 operational
<b>Power</b>	Eskom mains (zone 3/6?)
<b>Notes</b>	Reinstallation complete

<b>145.750</b>	<b>Kanonkop (Tygerberg)</b>
<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>Power</b>	Eskom mains (zone?); battery backup with mains recharge
<b>Notes</b>	

<b>434.650</b>	<b><i>Hanskop (Sir Lowry's Pass)</i></b>
<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>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	1. Link to Hawequas/145.650 operational 2. Link to Onrusberg/145.725 operational
<b>Power</b>	Eskom mains (zone 5); battery backup with mains recharge
<b>Notes</b>	

<b>434.625</b>	<b><i>Kanonkop (Tygerberg)</i></b>
<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>Power</b>	Eskom mains; battery backup with mains recharge
<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.

<b>438.725</b>	<b><i>Dana Bay</i></b>
<b>Status</b>	<b>Testing</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>Power</b>	Municipal mains
<b>Notes</b>	

<b>438.300</b>	<b><i>Bottelary</i></b>
<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 ZU9DMR_B, RPT2 as ZU9DMR_G – replace “ ” character with a space.
<b>Links</b>	Internet – ZU9DMR_G gateway
<b>Power</b>	Eskom mains (zone 10/14?); battery backup with mains recharge
<b>Notes</b>	DMR ID 655101 The repeater will autodetect modes as long as no other mode is operational.

<b>438.350</b>	<b>Helderberg DMR</b>
<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>	None
<b>Links</b>	None
<b>Power</b>	City of Cape Town mains (zone 3)
<b>Notes</b>	DMR ID 655102

<b>438.400</b>	<b>Noon Gun DMR</b>
<b>Status</b>	<b>Operational</b>
<b>Frequencies and Tones</b>	Output: 438.400 / Input: 430.800
<b>Mode</b>	DMR (7K60FXD/E – 4FSK)
<b>Faults Reported</b>	None
<b>Site specific requirements</b>	None
<b>Links</b>	None
<b>Power</b>	City of Cape Town mains (zone 7); battery backup with mains recharge
<b>Notes</b>	DMR ID 655001

<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>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Power</b>	City of Cape Town mains (zone 3); battery backup with mains recharge
<b>Notes</b>	None

<b>ZS0DZ</b>	<b><i>Du Toitskloof 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>	None
<b>Site-specific requirements</b>	None
<b>Links</b>	None
<b>Power</b>	Solar PV
<b>Notes</b>	None

<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>Power</b>	City of Cape Town mains (zone 7)
<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>Power</b>	City of Cape Town mains (zone 1)
<b>Notes</b>	None



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

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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/>

Any notes, updates, incidents or donations are to be sent by e-mail to '[reports@wcrwg.co.za](mailto:reports@wcrwg.co.za)' 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)