

WCRWG Status Report:

2020-06-16

Notes and Updates since last report

1. An update to the DSTAR repeater on Botlary was omitted from last week's report. Jan ZS1VDV has worked tirelessly to get the DSTAR repeater back online and linked to XLX655D, as of Saturday 6 June.
2. Jan has posted a summary and links of recent months' maintenance to the wc-repeater-announcements group. It is included here for completeness:

Hawequa was fully repeater swapped out, 6m link radio installed, backup power installed, controller references re calibrated and Eskom outages resolved.

Bottelary got a new internet link, all internet gateways were updated and are fully online again. Jonaskop controller was updated, controller linked to backup power, and repeater audio levels adjusted.

Hanskop repaired after theft and backup battery running again.

ZS1YT, ZS1EQ, ZS1V, ZS1MTF, ZS1RK, ZS1JPM, ZS1SJ, ZS1TR, ZS1VDV just to mention a few.

<http://wcrwg.co.za/2020/04/25/hawequa-maintenance-20200425/>

<http://wcrwg.co.za/2020/05/09/jonaskop-maintenance-20200509/>

<http://wcrwg.co.za/2020/05/24/jonaskop-maintenance-20200523/>

<http://wcrwg.co.za/2020/05/30/bottelary-repairs/>

<http://wcrwg.co.za/2020/05/31/hawequa-maintenance-20200531/>

<http://wcrwg.co.za/2020/06/01/hanskop-emergency-visit/>

<http://wcrwg.co.za/2020/06/06/bottelary-maintenance-20200606/>

<http://wcrwg.co.za/2020/06/13/hanskop-maintenance-20200613/>

<http://wcrwg.co.za/2020/06/13/hawequa-maintenance-20200613/>

This could not have been done without the donations by individuals!

All travel was donated!

ZS1MTF donated the Internet link equipment for Bottelary

ZS1EQ designed, built and donated the power failover equipment for Hawequa and Bottelary

Donations received since last report.

1. None reported recently, but see above.

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	<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.

145.600	<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

145.625	<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

145.650	<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

145.650	<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	

145.675	<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

145.700	<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.

145.700	<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.

145.725	<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	

145.750	<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	

434.650	<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.

434.625	<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.

438.725	<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	

438.300	<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.

438.350	<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/>



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)