

WCRWG Status Report:

2019-07-09

Notes and Updates since last report

1. This past weekend, Sybrand ZS1SJ, Paul ZS1V and Jan ZS1VDV made a trip up to Hanskop to perform maintenance on the UHF repeater. Problem: About 2 months after the big rebuild in September 2018, the UHF repeater was starting to drop out after a few seconds of transmission. This led to a very long problem finding, with some help of the high site managers personnel to save on trips to site on a very bad road. After 4 months of problem finding, it was concluded that was not the repeater and not the antenna. Most probably the duplexer. For more details, visit the WCRWG website to read the full report.

Donations received since last report.

1. None 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**.

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|-----------------------------------|--|
| 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 space. |
| Links | Internet – ZU9DBI_G gateway |
| 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. |

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|-----------------------------------|--|
| 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 |

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|-----------------------------------|--|
| 145.625 | <i>Piketberg</i> |
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| 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 | 1. Link to Hawequas/145.650 operational |
| Notes | DTMF codes are published on the WCRWG website |

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|-----------------------------------|--|
| 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 | 1. Link to Hanskop/434.600 operational 2. Link to Piketberg/145.625 operational |
| Notes | DTMF codes are published on the WCRWG website |

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|-----------------------------------|--|
| 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 | 1. Link to Jonaskop/145.675 operational 2. Link to George/145.700 operational |
| Notes | |

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|-----------------------------------|--|
| 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 | 1. Link to Hanskop/145.600 operational. 2. Link to Riversdale/145.650 operational |
| Notes | DTMF codes are published on the WCRWG website |

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|-----------------------------------|--|
| 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. |

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|-----------------------------------|--|
| 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. |

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|-----------------------------------|----------------------------------|
| 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 | |

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|-----------------------------------|---|
| 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 | |

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|-----------------------------------|--|
| 434.650 | <i>Hanskop (Sir Lowry's Pass)</i> |
| Status | DOWN |
| 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. |

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|-----------------------------------|---|
| 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. |

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| 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 | |

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|-----------------------------------|--|
| 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. |

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|-----------------------------------|----------------------------------|
| 438.350 | <i>Helderberg</i> |
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| 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 |

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|-----------------------------------|-------------------------------------|
| ZS0DCC | <i>Helderberg Digipeater</i> |
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| 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 |

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|-----------------------------------|---|
| 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) |

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|-----------------------------------|-------------------------------------|
| 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)