

# WCRWG Status Report: 2020-09-08

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

1. Maintenance was performed on 3 September 2020 at the Hawequa site – for more information see <http://wcrwg.co.za/2020/09/03/maintenance-hawequa-20200903/>

## **Donations received since last report.**

1. A cash donation was received from Adriaan Dissel ZS1ADL on 1 September.
2. A cash donation was received from Danie van der Merwe ZS1OSS on 20 August.
3. A cash donation was received from Matt Feinstein ZS1MTF on 4 September.

## **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 a space.   |
| <b>Links</b>                      | Internet – ZU9DBI_G gateway – default linked to TG655  |
| <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>            | None   |
| <b>Site specific requirements</b> | None   |
| <b>Links</b>                      | 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>                      | 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.<br>Audio problem from controller to VHF repeater.<br>No CTCSS output as a result of commercial breakthrough.<br>External temperature sensor faulty. |
| <b>Site-specific requirements</b> | None   |
| <b>Links</b>                      | <ol style="list-style-type: none"> <li>1. Link to Hanskop/434.600 operational</li> <li>2. Link to Piketberg/145.625 operational</li> </ol>   |
| <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>                      | <ol style="list-style-type: none"> <li>1. Link to Jonaskop/145.675 operational</li> <li>2. Link to George/145.700 disconnected due to low audio.</li> </ol> |
| <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>            | None   |
| <b>Site-specific requirements</b> | None   |
| <b>Links</b>                      | <ol style="list-style-type: none"> <li>1. Link to Hanskop/145.600 operational.</li> <li>2. Link to Riversdale/145.650 operational</li> </ol> |
| <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>                      |   |

|                                   |  |
|-----------------------------------|--|
| 434.650                           | <i>Hanskop (Sir Lowry's Pass)</i>                                      |
| <b>Status</b>                     | Operational  |
| <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                                |
| <b>Notes</b>                      | Change of frequency from 434.600/433.000 necessitated by interference. |

|                                   |   |
|-----------------------------------|---|
| 434.625                           | <i>Kanonkop (Tygerberg)</i>   |
| <b>Status</b>                     | Operational   |
| <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<br>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>                     | Operational                      |
| <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>                     | Operational  |
| <b>Frequencies and Tones</b>      | Output: 438.300 / Input: 430.700   |
| <b>Mode</b>                       | 1 - DMR (7K60FXD/E - 4FSK)<br>2 - D*STAR (6K0F7W – GMSK)<br>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, currently unlinked due to no Internet                                   |
| <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> | None                             |
| <b>Links</b>                      | None                             |
| <b>Notes</b>                      | None                             |

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| <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>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>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)

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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 '[zs1bsd@gmail.com](mailto: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)