

WCRWG Status Report: 2023-09-19

Notes and Updates since last report

1. This and previous reports can be found at <http://wcrwg.co.za/category/status-report/>
2. Bottelaryberg 145.575/438.300 battery backup stolen;

Donations received since last report

1. Cash donation from Schalk Burger ZR1SWB, received on 15 September 2023;

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 | 145.700 | Constantiaberg | 19.30 | 20.30 | Wednesdays | Except the first Wednesday of each month |
| Bulletin | BARK | 145.700 | Constantiaberg | 09.30 | 10.30 | Sundays | |
| Bulletin | CTARC | 145.750 | Kanonkop | 08.30 | 09.30 | Sundays | SARL bulletin followed by club bulletin |
| Bulletin | ZS1F | 145.700 | Constantiaberg | 10.00 | 11.00 | Sundays | Amateur Radio Today |

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 |
| Power | Eskom mains (zone 10/14 ?); battery backup with mains recharge |
| 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 | <ol style="list-style-type: none">1. Link to Jonaskop/145.675 operational2. Link to Onrusberg/145.725 operational |
| Power | Eskom mains (zone 5); battery backup with mains recharge |
| 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 |
| Power | Eskom mains (zone 15?); Sentech generator backup |
| 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/434.650 operational 2. Link to Piketberg/145.625 operational |
| Power | Eskom mains (zone 11); battery backup with solar recharge |
| 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 DOWN |
| Power | Eskom mains (zone 2/4?) |
| 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 DOWN 2. Link to Riversdale/145.650 DOWN |
| Power | Eskom mains (zone 4); battery backup with solar recharge |
| Notes | DTMF codes are published on the WCRWG website |

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| 145.700 | Constantiaberg |
| 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 |
| Power | Eskom mains (zone ?); Sentech generator backup |
| Notes | Antenna upgrade being planned. |

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|-----------------------------------|---|
| 145.700 | George |
| Status | Operational |
| Frequencies and Tones | Output: 145.700 / Input: 145.100 |
| Mode | Analogue FM (16K0F3E) |
| Faults Reported | None |
| Site-specific requirements | None |
| Links | Link to Dana Bay/438.725MHz operational |
| Power | Eskom mains (zone?); battery backup with mains recharge |
| Notes | DTMF codes are published on the WCRWG website. |

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|-----------------------------------|-------------------------------------|
| 145.725 | Hermanus (Onrusberg) |
| 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/434.650 operational |
| Power | Eskom mains (zone 3/6?) |
| Notes | Reinstallation complete |

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|-----------------------------------|---|
| 145.750 | Kanonkop (Tygerberg) |
| 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 |
| Power | Eskom mains (zone?); battery backup with mains recharge |
| Notes | |

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|-----------------------------------|---|
| 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 2. Link to Onrusberg/145.725 operational |
| Power | Eskom mains (zone 5); battery backup with mains recharge |
| Notes | |

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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 |
| Power | Eskom mains; battery backup with mains recharge |
| 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 | Testing |
| 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 |
| Power | Municipal mains |
| 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 |
| Power | Eskom mains (zone 10/14?); |
| Notes | DMR ID 655101 The repeater will autodetect modes as long as no other mode is operational. |

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| 438.350 | Helderberg DMR |
| 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 |
| Power | City of Cape Town mains (zone 3) |
| Notes | DMR ID 655102 |

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

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|-----------------------------------|--|
| 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 |
| Power | City of Cape Town mains (zone 3); battery backup with mains recharge |
| Notes | None |

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|-----------------------------------|--|
| ZS0DZ | <i>Du Toitskloof Digipeater</i> |
| Status | DOWN |
| Frequencies and Tones | Output: 144.800 / Input: 144.800 |
| Mode | Digital FM-N (11K0F2D) AFSK |
| Faults Reported | None |
| Site-specific requirements | None |
| Links | None |
| Power | Solar PV |
| 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 |
| Power | City of Cape Town mains (zone 7) |
| 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 |
| Power | City of Cape Town mains (zone 1) |
| 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 '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)