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**GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS**

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**DEPARTMENT OF SCIENCE AND INNOVATION**

NO. 285

31 March 2021

**NOTICE OF THE REVISED EXEMPTED RADIO FREQUENCY SPECTRUM FOR THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREA**

I, Dr. Bonginkosi Emmanuel Nzimande, Minister of Higher Education, Science and Innovation published the exempted frequency spectrum as outlined in the Regulations for the Protection of the Karoo Central Astronomy Advantage Areas (herein after referred to as the "KCAAA Regulations") in Government Gazette No. 42531, under Notice No. 926 on 14 June 2019.

In accordance with Regulation 3(4) of Schedule B of the KCAAA Regulations and having received concurrence from the Independent Communications Authority of South Africa (ICASA), I hereby publish the revised radio frequency spectrum exempted for use within the KCAAAAs as set out in the attached schedule. As a result of the aforementioned I extended the period for compliance with the Regulations on the Protection of the Karoo Central Astronomy Advantage Areas, made under the Astronomy Geographic Advantage Act, 2007, to 15 December 2021 (Notice No. 1293, published in Government Gazette No. 43967, on 4 December 2020)

Interested and affected parties are invited to submit written representations on or objections to the intended revised exempted radio frequency spectrum for the Karoo Central Astronomy Advantage Area within 60 (sixty) days of publication of the said notice

In terms of Regulation 3(2) of Schedule A of the KCAAA Regulations (extended to 15 December 2021), the use of the radio frequency spectrum from 100MHz to 25 500 MHz (25.5 GHz) within the KCAAA will be prohibited. Only the radio frequency spectrum exempted from the prohibition as stated in the attached schedule may subsequently be used if a permit has been issued in terms of Regulation 4 of Schedule B of the KCAAA Regulations.

All licensees and licence exempt operators who conduct radio transmissions within the KCAAAAs, except for those who are exempted in terms of Regulation 5 of Schedule A of the KCAAA Regulations, are required to apply for a permit from the Astronomy Management Authority (AMA), a unit of the Department of Science and Innovation, in order to be able to continue to operate within the KCAAAAs.

The application forms for permits were published in Government Gazette No. 42085, under Notice No. 1337, on 05 December 2018. The application forms are available at the Department of Science and Innovation offices and online at <https://ama.dst.gov.za>.

Any enquiries regarding this notice may be addressed to Mr. Mere Kgampe at 012 348 6644 or email [Mere.kgampe@dst.gov.za](mailto:Mere.kgampe@dst.gov.za) .



**DR BE NKZIMANDE, MP**  
**MINISTER OF HIGHER EDUCATION, SCIENCE AND INNOVATION**

## DEPARTEMENT VAN WETENSKAP EN INNOVASIE

NO. 285

31 Maart 2021

**KENNISGEWING VIR DIE HERSIENDE VRYSTELLING VAN RADIOFREKWENSIE SPEKTRUM VIR GEBRUIK BINNE DIE KAROO SENTRALE ASTRONOMIEVOORDEELGEBIEDE**

Ek, Dr. Bonginkosi Emmanuel Nzimande, Minister van Wetenskap en Innovasie, het die vrygestelde radiofrekwensie, soos uiteengesit in die Regulasies vir die Beskerming van die Karoo Sentrale Astronomievoordeelgebiede (hierna genoem die KCAAA), gepubliseer in die Staatskoerant Nr. 42531 onder kennisgewing Nr. 926 op 14 Junie 2019.

In ooreenstemming met Regulasie 3(4) van Bylae B van die KCAAA Regulasies, en met instemming van die Onafhanklike Kommunikasie-owerheid van Suid-Afrika (ICASA), publiseer ek, hiermee die hersiende radio frekwensiespektrum wat vrygestel is vir gebruik binne die KCAAA's soos uiteengesit in die aangehegte bylaag.

As gevolg van die voorgenoemde het ek die periode om te voldoen aan die Regulasies vir die Beskerming van die Karoo Sentrale Astronomievoordeelgebiede, gemaak ingevolge die Wet op Geografiese Astronomievoordeelgebiede, 2007, verder verleng tot 15 Desember 2021 (Kennisgewing Nr. 1293, Staatskoerant Nr. 43967 op 4 Desember 2020).

Belangstellende en geaffekteerde partye word uitgenooi om binne 60 (sestig) dae, vanaf die publikasie van die kennisgewing skriftelike vertoë of besware teen die voorgenome hersiende radio frekwensiespektrum binne die Karoo Sentrale Astronomievoordeelgebiede te rig.

Ingevolge Regulasie 3(2) van Bylae A van die KCAAAA regulasies (verleng tot 15 Desember 2021), sal die gebruik van die radiofrekwensiespektrum tussen 100 MHz tot 25 500 MHz (25.5 GHz), binne die KCAAA's verbode wees. Slegs die radiofrekwensiespektrum wat vrygestel is van die verbod soos vermeld in die aangehegte bylaag, mag daarna gebruik word en slegs indien 'n permit uitgereik is ingevolge Regulasie 4 van die Bylae B van die regulasies.

Alle lisensiehouers en lisensie-vrygestelde operateurs wat radio-uitsendings binne die KCAAA's uitvoer, behalwe dié wat ingevolge Regulasie 5 van Skedule A van die regulasies vrygestel is, moet aansoek doen vir 'n permit van die Astronomie Bestuursgesag (AMA), 'n eenheid van die Departement van Wetenskap en Innovasie, om te kan voortgaan om binne die KCAAA's te funksioneer.

Die aansoekvorms vir permitte is gepubliseer in die Staatskoerant Nr. 42085 onder Kennisgewing Nr. 1337 op 05 Desember 2018. Die aansoekvorms is beskikbaar by die Departement van Wetenskap en Innovasie en aanlyn by die webadres: <https://ama.dst.gov.za>.

Enige navrae aangaande hierdie kennisgewing kan gerig word aan Mnr. Mere Kgampe by telefoonnommer: (012) 843 6644 of e-pos: [mere.kgampe@dst.gov.za](mailto:mere.kgampe@dst.gov.za)



**DR BE NZIMANDE, LP**

**MINISTER VAN HOËR ONDERWYS, WETENSKAP EN INNOVASIE**

## **SCHEDULE**

### **REVISED RADIO FREQUENCY SPECTRUM BANDS PROPOSED TO BE EXEMPTED FROM THE PROHIBITION OF ITS USE IN THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS.**

1. The band between 100 MHz to 200 MHz is exempted from the prohibition of its use, for all existing radio communication transmissions which were lawful immediately before the promulgation of the Regulations for the Protection of the Karoo Central Astronomy Advantage Areas (herein after referred to as the "KCAAA Regulations") as published in Government Gazette No. 41321, under Notice No. 1411, on 15 December 2017.
2. In the paired bands allocated to mobile services, all uplink frequency bands are exempted from the prohibition in terms of sub-regulation 5(3) of Schedule A of the KCAAA Regulations.
3. All space-to-earth frequency bands allocated in terms of Independent Communications Authority of South Africa's (ICASA) National Radio Frequency Plan 2018 as published in Government Gazette No. 41650, under Notice No. 266, on 25 May 2018 as amended, are exempted from the prohibition in sub-regulation 3(2) of Schedule A of the Regulations.
4. All allocations to operate in line with specifications in ICASA National Radio Frequency Plan and Radio Frequency Spectrum Regulations.

**TABLE OF FREQUENCY ALLOCATION FOR THE  
DECLARED KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS**

| <b>Frequency band</b> | <b>Allocation to services</b>            | <b>Proposed change</b>                                                        |
|-----------------------|------------------------------------------|-------------------------------------------------------------------------------|
| 138 – 144 MHz         | FIXED                                    | none                                                                          |
|                       | MOBILE                                   | Include both links                                                            |
| 144 – 146 MHz         | AMATEUR                                  | none                                                                          |
| 366 – 380 MHz         | GOVERNMENT SERVICES AND<br>PUBLIC SAFETY | none                                                                          |
| 440 – 441             | FIXED                                    | none                                                                          |
| 416.1 – 417.625       | MOBILE                                   | none                                                                          |
| 450 – 453 MHz         | FIXED                                    | none                                                                          |
| 460 – 463 MHz         | FIXED                                    | none                                                                          |
| 454 – 460 MHz         | MOBILE                                   | Swopped BTX and MTX                                                           |
| 935.1 – 946.1<br>MHz  | MOBILE                                   | Extend the band by 100kHz on<br>both sides to cover all licensed<br>spectrum. |
| 946.5 – 948.9<br>MHz  | MOBILE                                   | Extend the band by 100kHz on<br>both sides to cover all licensed<br>spectrum. |
| 951.1 – 959.7<br>MHz  | MOBILE                                   | Extend the band by 100kHz on<br>both sides to cover all licensed<br>spectrum. |

| Frequency band    | Allocation to services           | Proposed change                                                                          |
|-------------------|----------------------------------|------------------------------------------------------------------------------------------|
| 1880 – 1900 MHz   | FIXED                            | Allocated to FIXED service not MOBILE                                                    |
| 2110 – 2125 MHz   | MOBILE                           | none                                                                                     |
| 2140 – 2155 MHz   | MOBILE                           | Additional allocation for MTN                                                            |
| 2307 – 2387 MHz   | FIXED                            | none                                                                                     |
| 2401 – 2481 MHz   | FIXED                            | none                                                                                     |
| 5470 – 5720 MHz   | ISM                              | Should be removed to short range devices                                                 |
| 7443 – 7583 MHz   | FIXED                            | none                                                                                     |
| 7611 – 7751 MHz   | FIXED                            | none                                                                                     |
| 8282 – 8297 MHz   | FIXED                            | none                                                                                     |
| 8408 – 8423 MHz   | FIXED                            | none                                                                                     |
| 10154 – 10294 MHz | FIXED                            | none                                                                                     |
| 10450 – 10500 MHz | RADIOLOCATION                    | Consider the possibility of migrating or including secondary allocation in 10504 - 10644 |
| 10504 – 10644 MHz | FIXED.                           | none                                                                                     |
| 13.75 – 14.5 GHz  | FIXED SATELLITE (Earth-to-space) | Satellite earth stations                                                                 |

The following frequency bands are exempted in terms of sub-regulation 5(2) of SCHEDULE A of the Regulations for apparatus exempt from ICASA radio frequency spectrum licences that transmit EIRP of 250 mW or less and should also operate in accordance with the specifications in Annexure B of ICASA's Radio Frequency Spectrum Regulations 2015.

| Revised Exempted Band | Apparatus                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| 141 – 142 MHz         | Remote control industrial apparatus.                                                                                       |
| 148 – 152 MHz         | Wild life telemetry tracking.                                                                                              |
| 402 – 405 MHz         | Medical Implants/ Doppler shift movement detectors, wireless microphones, garage door openers and motor car alarm systems. |
| 433.05 – 434.79 MHz   | Non-specific SRDs                                                                                                          |
| 863 – 865 MHz         | Wireless Audio Systems / Wireless microphones                                                                              |
| 865 – 868 MHz         | RFID                                                                                                                       |
| 869.25 – 869.3 MHz    | Alarms                                                                                                                     |
| 915.1 – 915.2 MHz     | Real time location system                                                                                                  |
| 2400 - 2483           | WLAN / Non-specific SRDs/ FDDA / Low Power Video surveillance                                                              |
| 5150 – 5350 MHz       | WAS/RLAN (indoor)                                                                                                          |
| 1880 – 1900 MHz       | DECT cordless phones                                                                                                       |