

GENERAL NOTICES ALGEMENE KENNISGEWINGS

NOTICE 198 OF 2014

DEPARTMENT OF SCIENCE AND TECHNOLOGY

DECLARATION OF THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS IN TERMS OF THE ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007.

I, Derek Hanekom, Minister of Science and Technology, hereby withdraw Notice No. 141 in Gazette No. 37397 published on 28 February 2014 and replace it with this notice in which I declare the areas indicated in the schedule hereto as the Karoo Central Astronomy Advantage Areas for the purpose of radio astronomy and related scientific endeavours in terms of section 9(1) and (2) of the Astronomy Geographic Advantage Act, 2007 (Act No.21 of 2007) ("the Act").

As provided for in the Act the declared astronomy advantage areas are to be protected, preserved and properly maintained in respect of radio frequency interference or interference in any other way. Protection for the areas is to be established through the making of regulations in terms of the Act.

The draft regulations will be subjected to the public participation processes prescribed in the Act and the Promotion of Administrative Justice Act (Act 3 of 2000). Draft regulations will be sent by registered post or a chosen preferred method for comment to persons in the permanent register of interested and affected parties for the Karoo Central Astronomy Advantage Areas whose existing rights may be directly affected by such regulations before the regulations are published in the Government Gazette.

The written and oral representations made during the public consultation process for this declaration will be considered together with any new submissions to be made when the draft regulations are published for public comment in so far as they relate to aspects included in the draft regulations. A person who has already made a written and/or an oral representation may submit further representations.

An addendum containing a summary of the report by Prof JCW van Rooyen SC to me is attached to this notice. The full version of the report, as accepted by me, is available at the Astronomy Management Authority within the Department of Science and Technology. To obtain a copy of the report please contact:

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DEREK HANEKOM
MINISTER OF SCIENCE AND TECHNOLOGY

SCHEDULE

1. Definitions

In this notice any word or expression to which a meaning has been ascribed in the Act shall have the meaning so ascribed and, unless the context indicates otherwise:

"Karoo Core Astronomy Advantage Area" means the Karoo Core Astronomy Advantage Area declared in Notice No. 723 in Government Gazette No. 33462 on 20 August 2010;

"Polygon" means a closed plane figure bounded by straight lines; and

"WGS 84" means World Geodetic System dating from 1984 and last revised in 2004.

2. Scope of the declaration

This declaration applies to the Karoo Central Astronomy Advantage Areas described below which will be used for the purposes of radio astronomy and related scientific endeavours.

3. Description of the Karoo Central Astronomy Advantage Areas

- (1) The Karoo Central Astronomy Advantage Areas (Figure 1) consist of three partly overlapping areas with common inner boundaries that coincide with the outer boundaries of the Karoo Core Astronomy Advantage Area. The three areas have different outer boundaries that depend on the applicable propagation conditions for the different frequency bands specified, and other practical considerations.
- (2) The Karoo Central Astronomy Advantage Area 1 is the area between the boundaries of the Karoo Core Astronomy Advantage Area and outer boundaries in the form of a polygon for which the geographical coordinates according to the WGS 84 datum are provided in the table below. The area is limited to the boundaries of the Northern Cape Province and does not include any area where the polygon may extend across the provincial border. This area will apply to radio astronomy observations in the frequency band from 100 to 2 170 MHz.

Point references: Karoo Central Astronomy Advantage Area 1	Latitude (degrees South)	Longitude (degrees East)
A 1	29.3500	18.8100
B 1	28.7800	20.9900
C 1	28.9100	21.6000
D 1	29.5200	22.0500
E 1	30.5900	23.4300
F 1	31.9600	22.2200
G 1	32.3700	20.9800
H 1	30.4100	19.0000

- (3) The Karoo Central Astronomy Advantage Area 2 is the area between the boundaries of the Karoo Core Astronomy Advantage Area and outer boundaries in the form of a polygon for which the geographical coordinates according to the WGS 84 datum are provided in the table below. This area will apply to radio astronomy observations in the frequency band from 2 170 to 6 000 MHz.

Point references: Karoo Central Astronomy Advantage Area 2	Latitude (degrees South)	Longitude (degrees East)
A 2	29.5100	19.6600
B 2	29.2200	21.6600
C 2	30.0800	22.7700
D 2	31.5100	22.6300
E 2	31.8200	20.6500
F 2	30.8100	19.5700

- (4) The Karoo Central Astronomy Advantage Area 3 is the area between the boundaries of the Karoo Core Astronomy Advantage Area and outer boundaries in the form of a polygon for which the geographical coordinates according to the WGS 84 datum are provided in the table below. This area will apply to radio astronomy observations in the frequency band from 6 000 to 25 500 MHz.

Point references: Karoo Central Astronomy Advantage Area 3	Latitude (degrees South)	Longitude (degrees East)
A 3	29.7900	20.4900
B 3	29.3400	21.8100
C 3	30.0800	22.7600
D 3	31.0600	22.5400
E 3	31.3800	21.4200
F 3	30.6800	20.1000

