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## GENERAL NOTICE

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### NOTICE 468 OF 2013

#### DEPARTMENT OF SCIENCE AND TECHNOLOGY

#### NOTICE OF INTENTION TO DECLARE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS IN TERMS OF THE ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007.

In terms of sections 9(1) and (2) of the Astronomy Geographic Advantage Act, 2007 (Act No.21 of 2007) (hereinafter referred to as "the Act"), I, Derek Hanekom, Minister of Science and Technology, hereby give notice of my intention to declare the areas in the schedule as the Karoo Central Astronomy Advantage Areas (AAAs) and further invite interested or affected parties to submit written representations on or objections to this proposed action in terms of section 42 of the Act.

Interested or affected persons are invited to submit written representations on or objections to the Schedule within sixty (60) days from the publication of this notice to:

Ms Lipuo Mothae  
Dept of Science and Technology  
Building 53, CSIR Campus  
Meiring Naude Road  
Brummeria  
Pretoria

Or  
Dept of Science and Technology  
Private Bag X894  
Pretoria  
0001

Or

E mail address [lipuo.mothae@dst.gov.za](mailto:lipuo.mothae@dst.gov.za)

Enquiries can be made at telephone number 012 843 6463

Attention is drawn to Notice 649 of 2010 published in Government Gazette No. 33328 on 2 July 2010 in which interested and affected parties in the proposed core, central and co-ordinated AAAs as indicated in the schedule to that notice, are invited to register their details with the Department.

Attention is also drawn to the fact that once an area has been declared a central AAA, the Minister may –

- act to restrict and protect the use of radio frequency spectrum for radio astronomy purposes (for greater detail, see s22 of the Act, which is available at the Department of Science and Technology website [www.dst.gov.za/](http://www.dst.gov.za/) in the navigation panel under "LEGISLATION" (click on it) and then under "Acts" (click on Acts) – Page 2 of 2 - Item no. 6 in the opened window;
- declare that no person may, within a central AAA, conduct certain activities (for greater detail, see s23 of the Act);

- prescribe regulations to apply in core and central AAAs on national standards or measures for the control or minimisation of radio frequency interference, electromagnetic interference or any other activity (for greater detail, see s37 of the Act); and
- make regulations concerning a range of issues (for greater detail, see s50 of the Act).



**DEREK HANEKOM**  
**MINISTER OF SCIENCE AND TECHNOLOGY**

## SCHEDULE

### 1. Definitions

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

“**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 at any point 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.

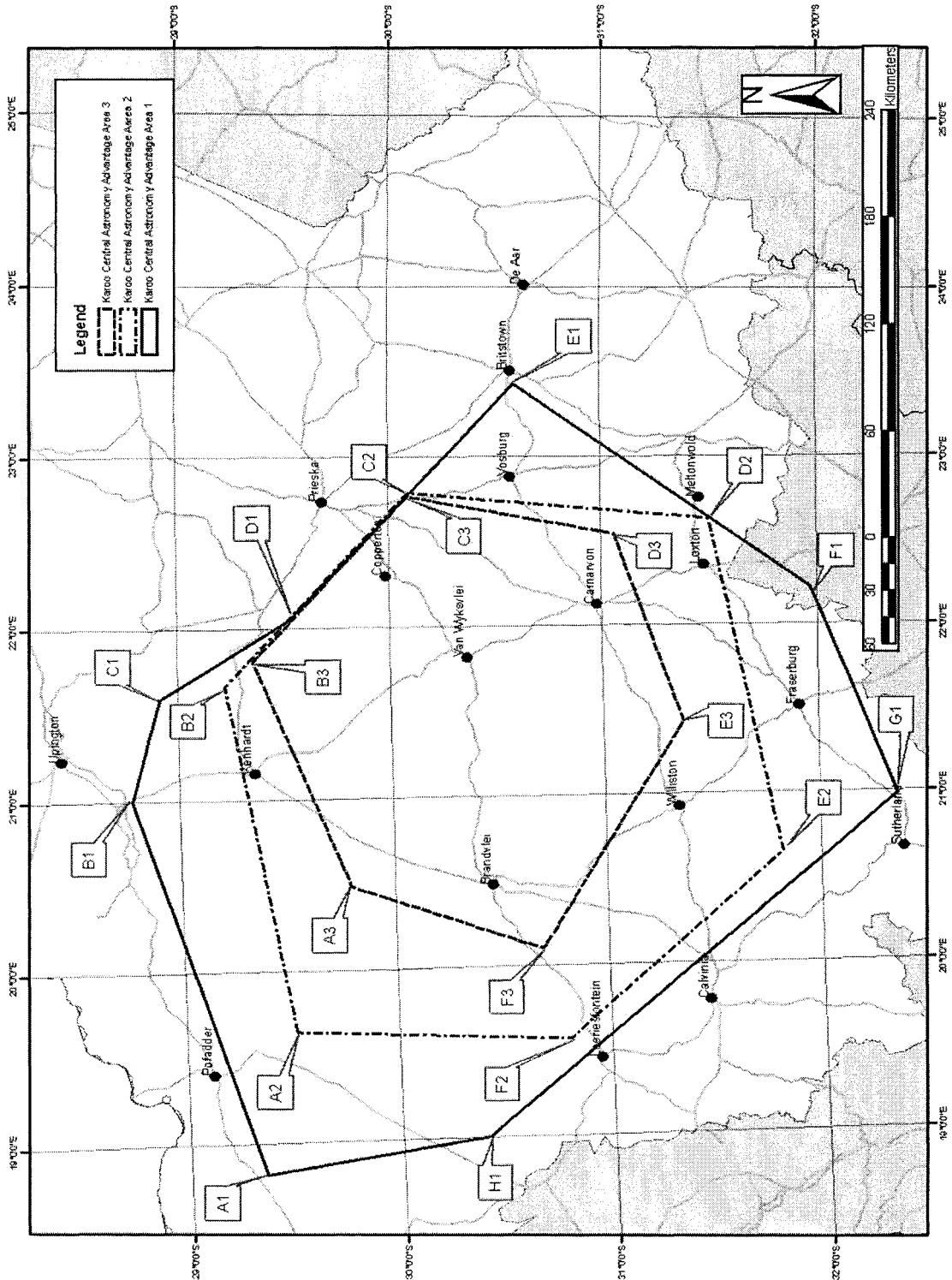
Point references: Karoo Central Astronomy Advantage Area 1	Latitude (degrees South)	Longitude (degrees East)
A 1	29.3500	18.8100
B 1	28.7800	20.9900
C 1	28.9100	21.6000
D 1	29.5200	22.0500
E 1	30.5900	23.4300
F 1	31.9600	22.2200
G 1	32.3700	20.9800
H 1	30.4100	19.0000

- (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



**Figure 1: Karoo Central Astronomy Advantage Areas**

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