

SOUTH AFRICAN AMATEUR RADIO HF BAND PLANS

Notes to the HF Band Plans

- The expression “Phone” includes all permitted forms of telephony.
- If transmitting very close to a band edge, take care not to radiate outside of the band.
- Before transmitting, all operators should check that the frequency is not already occupied. The normal advice is to use the phrase “Is this frequency in use?” on SSB, or “QRL?” on CW.
- Digimodes are defined as including: AmTOR, PacTOR, Clover, ASCII, RTTY (Baudot) and AX25 packet.
- LSB is recommended on bands below 10 MHz, and USB recommended on bands 10 MHz and above.
- The region 1 IARU HF band plans are designed to enable the best utilisation of the HF spectrum space available. They achieve this objective because the vast majority of licensed amateurs observe the voluntary recommendations. In some countries (e.g. the USA) licence regulations require that specific modes be confined to specific sections of each band.

1.8 MHz (160m)

Licence Notes:

Amateur Service: 1.810 - 1.850 MHz, Primary

Satellite Service: No allocation

Power limit: 26 dBW 400 W PEP

Permitted modes: Morse, Telephony, RTTY, DATA, FAX and SSTV

IARU	Usage
1.810	
CW only	
1.838	RTTY (Baudot) is the preferred digital mode on this band. Phone may be used above 1.840
Digimodes and CW (excluding AX25 packet)	
1.840	
Phone and CW	
1.850	Note: AX25 packet should not be used on the 1.8 MHz band

3.5 MHz (80m)

Licence Notes:

Amateur Service: Primary, Shared with other services

Satellite Service: No allocation

Power limit: 26 dBW 400 W PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

Unattended beacons: Only for DF contests, 14 dBW ERP PEP max (30 watts)

IARU	Usage
3.500	3.500 -3.510 Priority for CW inter-continental working
CW only	3.500 - 3.560 CW contest preferred segment
3.580	3.590 - 3.600 AX25 packet frequencies.
Digimodes and CW	(Phone may be used and has priority above 3.600 MHz)
3.620	3.600 - 3.650 Phone contest preferred segment
Phone and CW	3.700 - 3.800 Phone contest preferred segment 3.730 - 3.740 SSTV/Fax recommended 3.775 - 3.800 Reserved for intercontinental phone working
3.800	

7 MHz (40m)

Licence Notes:

Amateur Service: Primary

Satellite Service: Primary

Power limit: 26 dBW 400 W PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

IARU	Usage
7.000	
CW only	
7.035	Digimode forwarding may be used in Africa South of the Equator, during local daylight hours
Digimodes, CW, SSTV and Fax but excluding AX25 Packet	
7.045	
Phone and CW	
7.100	Note: AX25 packet should not be used on the 7 MHz band

10 MHz (30m)

Licence Notes:

Amateur Service: Primary

Satellite Service: No allocation

Power limit: 26 dBW 400 W PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

IARU	Usage
10.100	10.120 - 10.140 phone in Africa south of equator only
CW only	
10.140	3.590 - 3.600 AX25 packet frequencies. (Phone may be used and has priority above 3.600 MHz)
Digimodes and CW but excluding AX25 Packet	
10.150	Note: AX25 packet should not be used on the 10 MHz band

10 MHz Band Plan notes:

Note: The 10 MHz band is allocated to the amateur service in many countries on a secondary basis. Therefore IARU has agreed on a worldwide basis that only CW and digimode being narrow bandwidth modes are to be used on this band. The segment 10120 kHz – 10140 kHz may be used for SSB phone in Africa south of equator during local daylight hours only.

14 MHz (20m)

Licence Notes:

Amateur Service: Primary

Satellite Service: 14.000 - 14.250 MHz: Primary

Power limit: 26 dBW 400 W PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

IARU	Usage
14.000	14.000 – 14.060 CW only contest preferred segment
CW only	
14.070	14.089 – 14.099 No digimode mailbox or forwarding AX25 packet preferred frequencies
Digimodes and CW	
14.099	14.099 – 14.101 Reserved exclusively for beacons
Beacons only	
14.101	14.101 – 14.112 Digimode mailbox or forwarding AX25 packet preferred frequencies
Digimodes, phone and CW	
14.112	14.125 – 14.300 SSB only contest preferred segment 14.225 – 14.235 Used for SSTV/Fax
Phone and CW	
14.350	

18 MHz (17m)

Licence Notes:

Amateur Service: Primary

Satellite Service: Primary

Power limit: 26 dBW 400 w PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

IARU	Usage
18.068	
CW only	
18.100	
Digimodes and CW	
18.109	18.109 – 18.111 Exclusively beacons
Beacons only	
18.111	
Phone and CW	
18.168	

21 MHz (15m)

Licence Notes:

Amateur Service: Primary

Satellite Service: Primary

Power limit: 26 dBW 400 w PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax, SSTV

IARU	Usage
21.000	
CW only	
21.080	21.100 – 21.120 AX25 packet preferred
Digimodes and CW	
21.120	
CW only	
21.149	21.149 - 21.151 Beacons Exclusive
Beacons only	
21.151	21.335 – 21.345 Used for SSTV/Fax
Phone and CW	
21.450	

24 MHz (12m)

Licence Notes:

Amateur Service: Primary

Satellite Service: Primary

Power limit: 26 dBW 400 w PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

IARU	Usage
24.890	
CW only	
24.920	
Digimodes and CW	
24.929	24.929 – 24.931 Beacons exclusive
Beacons only	
24.931	
Phone and CW	
24.990	

28 MHz (10m)

Licence Notes:

Amateur Service: Primary

Satellite Service: Primary

Power limit: 26 dBW 400 w PEP

Permitted modes: Morse, Telephony, RTTY, Data, Fax and SSTV

Unattended beacons: Only for DF contests, 14 dBW ERP PEP max (30 watts)

IARU	Usage
28.000	
CW only	
28.050	28.120 – 28.150 AX25 packet preferred
Digimodes and CW	
28.150	28.190 – 28.199 Regional time shared International Beacon Project Exclusive
CW only	
28.199	28.199 – 28.201 Worldwide time shared International Beacon Project Exclusive
Beacons only	
28.201	28.199 – 28.255 Continuous duty International Beacon Project Exclusive
Phone and CW	28.675 – 28.685 Used for SSTV/Fax
29.200	
AX25 Packet, Phone and CW	
29.300	29.300 – 29.500 Reserved exclusively for satellite downlinks
Satellite downlinks	
29.550	Some experimental FM repeaters may be established in IARU Region 1
Phone and CW	
29.700	