

IARU REGION 1 HF BAND PLAN

Effective 01 January 2006

As amended by the 21st IARU R1 Conference, Cavtat 2008

[South African notes in Blue]

DEFINITIONS

- All modes: CW, SSB and those modes listed as Centres of Activity, plus AM (Consideration should be given to adjacent channel users).
- Image modes: Any analogue or digital image modes within the appropriate bandwidth, for example SSTV and FAX.
- Narrow band modes: All modes using up to 500 Hz bandwidth, including CW, RTTY, PSK etc.
- Digimodes: Any digital mode used within the appropriate bandwidth, for example RTTY, PSK, MT63, etc.
- (*) Lowest dial setting for LSB: 1843, 3603 and 7053 kHz [7043 kHz until 28 March 2009].

Notes

- Sideband Usage: Below 10 MHz use lower sideband (LSB), above 10 MHz use upper sideband (USB)
- Amplitude modulation (AM) may be used in the telephony sub-bands providing consideration is given to adjacent channel users.
- CW QSOs are accepted across all bands, except within beacon segments. (Recommendation DVO5_C4_Rec_13)
- Contest activity shall not take place on the 10, 18 and 24 MHz bands.
- Non-contesting radio amateurs are recommended to use the contest-free HF bands (30, 17 and 12 m) during the largest international contests. (DVO5_C4_Rev_07)
- The term "automatically controlled data stations" includes Store and Forward stations.
- Transmitting frequencies: The announced frequencies in the band plan are understood as "transmitted frequencies" (not those of the suppressed carrier!)
- Unmanned transmitting stations: IARU member societies are requested to limit this activity on the HF bands. It is recommended that any unmanned transmitting stations on HF shall only be activated under operator control except for beacons agreed with the IARU Region 1 beacon coordinator, or specially licensed experimental stations.
- Centre of Activity = CoA

Frequency (kHz)	Max Bandwidth (Hz)	Preferred Mode and Usage
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137 kHz Band

135.7 - 137.8	200	CW, QRSS and narrow-band digital modes
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R.R. 5.67B The use of the band 135.7 - 137.8 kHz in Algeria, Egypt, Iran (Islamic Republic of), Iraq, Libyan Arab Jamahiriya, Lebanon, Syrian Arab Republic, Sudan and Tunisia is limited to the fixed and maritime mobile services. The amateur service shall not be used in the above mentioned countries in the band 135.7 - 137.8 kHz, and this should be taken into account by the

countries authorising such use (WRC07)

1,8 MHz Band [160 metres]

1810 - 1838	200	CW, QRP CoA 1836 kHz
1838 - 1840	500	Narrow band modes
1840 - 1843	2700	All modes - digimodes, (*)
1843 - 1850	2700	All Modes, (*), upper limit ZS & ZR
1843 - 2000	2700	All modes, (*)

Primary Allocation

ZR have same access to band as ZS

No ZU operation allow

All modes except pulse and fast scan TV allowed

South African allocation 1810 to 1850 kHz

ZS = 26 dBW; ZR = 20 dBW

Lowest dial setting for LSB: 1843 kHz

3,5 MHz Band [80 metres]

3500 - 3510	200	CW, priority for intercontinental operation
3510 - 3560	200	CW, contest preferred, QRS CoA 3555 kHz
3560 - 3580	200	CW, QRP CoA 3560 kHz
3580 - 3590	500	Narrow band modes - digimodes
3590 - 3600	500	Narrow band modes digimodes, automatically controlled data stations (unattended)
3600 - 3620	2700	All modes - digimodes, automatically controlled data station (unattended), (*)
3600 - 3650	2700	All modes, SSB contest preferred, (*); Digital Voice CoA 3630 kHz
3650 - 3700	2700	All modes, SSB QRP CoA 3690 kHz
3700 - 3800	2700	All modes, SSB contest preferred, Image CoA 3735 kHz, Region 1 Emergency CoA 3760 kHz
3775 - 3800	2700	All modes, priority for intercontinental operation

Co-primary allocation

ZS = 26 dBW; ZR = 20 dBW; ZU = 13 dBW

All modes except pulse and fast scan TV allowed

Intercontinental operations should be given priority in the segments 3500 - 3510 kHz and 3775 - 3800 kHz

Where no DX traffic is involved, the contest segments should not include 3500 - 3510 kHz or 3775 - 3800 kHz. Member societies will be permitted to set other (lower) limits for national contests (within these limits).

3510 3600 kHz may be used for unmanned ARDF beacons (CW A1A) (Recommendation DV05_C4_Rec_12)

Member societies should approach their national telecommunication authorities and ask them not to allocate frequencies to other than amateur stations in the band segment that IARU has assigned to intercontinental long distance traffic.

ZR and ZU have full access to band

Lowest dial setting for LSB: 3603 kHz

7 MHz Band [40 metres]
[Until 28 March 2009]

7000 - 7035	200	CW, QRP CoA 7030 kHz
7035 - 7038	500	Narrow band modes - digimodes
7038 - 7040	500	Narrow band modes - digimodes, automatically controlled data stations (unattended)
7040 - 7043	2700	All modes - digimodes, automatically controlled data stations (unattended), *
7043 - 7100	2700	All modes, Image CoA 7043 kHz, Region 1 Emergency CoA 7060 kHz, SSB QRP CoA 7090 kHz, (1)
7100 - 7200	2700	All modes (2009: 200 Hz and 500 Hz segments below 7100 kHz will be extended)

Primary allocation

ZS = 26 dBW; ZR = 20 dBW; ZU = 13 dBW

All modes except pulse and fast scan TV allowed

The band segment 7035-7045 kHz may be used for automatically controlled data stations (unattended) traffic in the area of Africa south from the equator during local daylight hours.

ZR and ZU have full access to band

Lowest dial setting for LSB: 7043 kHz

7 MHz Band (40 Metres)
[From 29 March 2009]

7000 - 7025	200	CW, Contest preferred
7025 - 7040	200	CW, QRP CoA 7030 kHz
7040 - 7047	500	Narrow band modes - digimodes
7047 - 7050	500	Narrow band modes - digimodes, automatically controlled data stations (unattended)
7050 - 7053	2700	All modes - digimodes, automatically controlled data stations (unattended), *
7053 - 7060	2700	All modes - digimodes
7060 - 7100	2700	All modes, Digital Voice CoA 7070 kHz, SSB QRP CoA 7090 kHz, SSB contest preferred
7100 - 7130	2700	All modes, Region 1 Emergency CoA 7110 kHz
7130 - 7200	2700	All modes, SSB contest preferred, Image CoA 7165 kHz
7175 - 7200	2700	All modes, priority for intercontinental operation.

Primary allocation

All modes except pulse and fast scan TV allowed

Lowest dial setting for LSB: 7053 kHz

The band segment 7040 - 7055 kHz may be used for automatically controlled data stations (unattended) traffic in the area of Africa south from the equator during local daylight hours.

ZS = 26 dBW; ZR = 20 dBW; ZU = 13 dBW

ZR and ZU have full access to band

10 MHz Band (30 metres)

10100 - 10140	200	CW, QRP CoA 10116 kHz
10140 - 10150	500	Narrow band modes - digimodes

Secondary allocation

ZS = 26 dBW

ZR and ZU do not have access to band

All modes except pulse and fast scan TV allowed

SSB may be used during emergencies involving the immediate safety of life and property and only by stations actually involved in the handling of emergency traffic.

The band segment 10120 kHz to 10140 kHz may be used for SSB transmissions in the area of Africa south of the equator during local daylight hours.

News bulletins on any mode should not be transmitted on the 10 MHz band.

14 MHz Band (20 metres)

14000 - 14060	200	CW, contest preferred, QRS CoA 14055 kHz
14060 - 14070	200	CW, QRP CoA 14060 kHz
14070 - 14089	500	Narrow band modes - digimodes. ZR access
14089 - 14099	500	Narrow band modes digimodes, automatically controlled data stations (unattended) ZR access
14099 - 14101		IBP, exclusively for beacons
14101 - 14112	2700	All modes - digimodes, automatically controlled data stations (unattended)
14112 - 14125	2700	All modes
14125 - 14300	2700	All modes, SSB contest preferred, Priority for DXpeditions 14195 kHz ± 5 kHz, Image CoA 14230 kHz, SSB QRP CoA 14285 kHz; Digital Voice CoA 14130 kHz
14225 - 14250	2700	ZR access. All modes, SSB contest preferred; Image CoA 14230 kHz.
14300 - 14350	2700	All modes, Global Emergency CoA 14300 kHz.

Primary allocation

ZS = 26 dBW; ZR = 20 dBW

ZR have access to 14070 - 14099 kHz and 14225 - 14250 kHz (14225 - 14350 kHz when regulations are corrected)

No ZU operation allow

All modes except pulse and fast scan TV allowed

18 MHz Band (17 metres)

18068 - 18095	200	CW, CW QRP CoA 18086 kHz
18095 - 18105	500	Narrow band modes - digimodes
18105 - 18109	500	Narrow band modes digimodes, automatically controlled data stations (unattended)
18109 - 18111		IBP, exclusively for beacons
18111 - 18120	2700	All modes - digimodes, automatically controlled data stations (unattended)
18120 - 18168	2700	All modes, Global Emergency CoA 18160 kHz; QRP SSB CoA 18.130 kHz; Digital Voice CoA 18150 kHz

Primary allocation

ZS = 26 dBW

ZR and ZU do not have access to band

All modes except pulse and fast scan TV allowed

21 MHz Band (15 metres)

21000 - 21070	200	CW, QRS CoA 21055 kHz, CW QRP CoA 21060 kHz
21070 - 21090	500	Narrow band modes - digimodes. ZR access
21090 - 21110	500	Narrow band modes digimodes, automatically controlled data stations (unattended). ZR access
21110 - 21120	2700	All modes (excluding SSB) - digimodes, automatically controlled data stations (unattended.) ZR access
21120 - 21149	500	Narrow band modes
21149 - 21151		IBP, exclusively for beacons
21151 - 21450	2700	All modes, SSB QRP CoA, 21285 kHz, Image CoA 21340 kHz, Global Emergency CoA 21360 kHz; Digital Voice CoA 21180 kHz,
21300 - 21450	2700	ZR access - All modes; Image Centre of Activity 21340 kHz, Global Emergency Centre of Activity 21360 kHz.

Primary allocation

[ZS = 26 dBW; ZR = 20 dBW](#)

[ZR have access to 21070 - 21120 kHz and 21300 - 21450 kHz](#)

[No ZU operation allow](#)

All modes except pulse and fast scan TV allowed

24 MHz Band (12 metres)

24890 - 24915	200	CW, CW QRP CoA 24906 kHz
24915 - 24925	500	Narrow band modes - digimodes
24925 - 24929	500	Narrow band modes digimodes, automatically controlled data stations (unattended)
24929 - 24931		IBP, exclusively for beacons
24931 - 24940	2700	All modes - digimodes, automatically controlled data stations (unattended)
24940 - 24990	2700	All modes; QRP SSB CoA 24950 kHz; Digital Voice CoA 24960 kHz

Primary allocation

[ZS = 26 dBW](#)

[ZR and ZU do not have access to band](#)

All modes except pulse and fast scan TV allowed

28 MHz Band (10 metres)

28000 - 28070	200	CW, QRS CoA 28055 kHz, CW QRP CoA 28060 kHz
28070 - 28120	500	Narrow band modes - digimodes; ZR & ZU access
28120 - 28150	500	Narrow band modes digimodes, automatically controlled data stations (unattended); ZR & ZU access
28150 - 28190	500	Narrow band modes
28190 - 28199		IBP, regional time shared beacons
28199 - 28201		IBP, worldwide time shared beacons
28201 - 28225		IBP, continuous duty beacons
28225 - 28300	2700	All modes - beacons
28300 - 28320	2700	All modes - digimodes, automatically controlled data stations (unattended); ZR & ZU access
28320 - 29200	2700	All modes, SSB QRP CoA 28360 kHz, Image CoA 28680 kHz;

		Digital Voice CoA 28380 kHz
28320 - 28500	2700	All modes, SSB QRP CoA 28360 kHz. ZR & ZU access
29200 - 29300	6000	All modes - digimodes, automatically controlled data stations (unattended)
29300 - 29510	6000	Satellite-downlink
29510 - 29520		Guard channel
29520 - 29550	6000	All modes - FM simplex - 10 kHz channels
29560 - 29590	6000	All modes - FM repeater input (RH1 - RH4)
29600	6000	All modes - FM calling channel
29610 - 29650	6000	All modes - FM simplex - 10 kHz channels

Primary allocation ZS = 26 dBW; ZR = 20 dBW; ZU = 13 dBW
 ZR & ZU have access to 28070 - 28150 kHz and 28300 - 28500 kHz

All modes except pulse and fast scan TV allowed

Experimentation with NBFM Packet Radio on 29 MHz band: Preferred operating frequencies on each 10 kHz from 29.210 to 29.290 MHz included should be used. A deviation of ± 2.5 kHz being used with 2.5 kHz as maximum modulation frequency.

29700 - 30000	6000	All modes
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Secondary allocation ZS = 26 dBW
 ZR & ZU have no access to this segment All modes allowed

Secondary basis during exercises and emergency situations, single frequency mobile allocations