



# IARU Region 1 HF band plan

Effective 01 June 2016

edited by DK4VW

	FREQUENCY SEGMENT (kHz)	MAX BANDWIDTH (Hz)	PREFERRED MODE AND USAGE	
	135,7 - 137,8	200	CW	CW, QRSS, narrow band digital modes
	472 - 475	200	CW	CW, See NOTES
	475 - 479	( # )	Narrow band modes	CW, Digimodes See NOTES
1.8 MHz	1810 - 1838	200	CW	1836 kHz - CW QRP Centre of Activity
	1838 - 1840	500	Narrow band modes	
	1840 - 1843	2700	All modes (1)	Digimodes
	1843 - 2000	2700	All modes (1)	
3.5 MHz	3500 - 3510	200	CW	Priority for intercontinental operation
	3510 - 3560	200	CW	CW contest preferred 3555 kHz - CW QRS Centre of Activity
	3560 - 3570	200	CW	3560 kHz - CW QRP Centre of Activity
	3570 - 3580	200	Narrow band modes	Digimodes
	3580 - 3590	500	Narrow band modes	Digimodes
	3590 - 3600	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	3600 - 3620	2700	All modes (1)	Digimodes, automatically controlled data stations (unattended)
	3600 - 3650	2700	All modes (1)	SSB contest preferred 3630 kHz - Digital Voice Centre of Activity
	3650 - 3700	2700	All modes	3690 kHz - SSB QRP Centre of Activity
	3700 - 3775	2700	All modes	SSB contest preferred 3735 kHz - Image Centre of Activity 3760 kHz - R1 Emergency Centre of Activity
3775 - 3800	2700	All modes	SSB contest preferred, Priority for intercontinental operation	
5 MHz	5351.5 - 5354.0	500	CW, Narrow band modes	see NOTES
	5354.0 - 5366.0	2700	All modes	USB recommended for voice operation ( ## ) see NOTES
	5366.0 - 5366.5	20 (!)	Weak signal narrow band modes	see NOTES
7 MHz	7000 - 7040	200	CW	7030 kHz - CW, QRP Centre of Activity
	7040 - 7047	500	Narrow band modes	Digimodes
	7047 - 7050	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	7050 - 7053	2700	All modes (1)	Digimodes, automatically controlled data stations (unattended)
	7053 - 7060	2700	All modes	Digimodes
	7060 - 7100	2700	All modes	SSB contest preferred 7070 kHz - Digital Voice Centre of Activity 7090 kHz - SSB QRP Centre of Activity
	7100 - 7130	2700	All modes	7110 kHz - Region 1 Emergency Centre
	7130 - 7175	2700	All modes	SSB contest preferred 7165 kHz - Image Centre of Activity
	7175 - 7200	2700	All modes	SSB contest preferred, Priority for intercontinental Activity
10 MHz	10100 - 10130	200	CW	10116 kHz - CW QRP Centre of Activity
	10130 - 10150	500	Narrow band modes	Digimodes
14 MHz	14000 - 14060	200	CW	CW contest preferred, 14055 kHz - QRS Centre of Activity
	14060 - 14070	200	CW	14060 kHz CW QRP Centre of Activity
	14070 - 14089	500	Narrow band modes	Digimodes
	14089 - 14099	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	14099 - 14101		International Beacon Project	Beacons exclusively
	14101 - 14112	2700	All modes	Digimodes, automatically controlled data stations (unattended)
	14112 - 14125	2700	All modes	
	14125 - 14300	2700	All modes	SSB contest preferred 14130 kHz - Digital Voice Centre of Activity 14195 +/- 5 kHz - Priority for DX-peditions 14230 kHz - Image Centre of Activity 14285 kHz - SSB QRP Centre of Activity
	14300 - 14350	2700	All modes	14300 kHz - Global Emergency Centre of Activity



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18 MHz	18068 - 18095	200	CW 18086 kHz - CW QRP Centre of Activity	
	18095 - 18105	500	Narrow band modes	Digimodes
	18105 - 18109	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	18109 - 18111		International Beacon Project	Beacons exclusively
	18111 - 18120	2700	All modes	Digimode, automatically controlled data stations (unattended)
	18120 - 18168	2700	All modes	18130 kHz - SSB QRP Centre of Activity 18150 kHz - Digital Voice Centre of Activity 18160 kHz - Emergency Centre of Activity
21 MHz	21000 - 21070	200	CW 21055 kHz - QRS Centre of Activity 21060 kHz - QRP Centre of Activity	
	21070 - 21090	500	Narrow band modes	Digimodes
	21090 - 21110	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	21110 - 21120	2700	All modes	Digimodes, automatically controlled data stations (unattended), (not SSB)
	21120 - 21149	500	Narrow band modes	
	21149 - 21151		International Beacon Project	Beacons exclusively
	21151 - 21450	2700	All modes	21180 kHz - Digital Voice Centre of Activity 21285 kHz - SSB QRP Centre of Activity 21340 kHz - Image Centre of Activity 21360 kHz - Global Emergency Centre of Activity
24 MHz	24890 - 24915	200	CW 24906 kHz - CW QRP Centre of Activity	
	24915 - 24925	500	Narrow band modes	Digimodes
	24925 - 24929	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	24929 - 24931		International Beacon Project	Beacons exclusively
	24931 - 24940	2700	All modes	Digimodes, automatically controlled data stations (unattended)
	24940 - 24990	2700	All modes	24950 kHz - Centre of Activity SSB QRP 24960 kHz - Digital Voice Centre of Activity
28 MHz	28000 - 28070	200	CW 28055 kHz - QRS Centre of Activity 28060 kHz - QRP Centre of Activity	
	28070 - 28120	500	Narrow band modes	Digimodes
	28120 - 28150	500	Narrow band modes	Digimodes, automatically controlled data stations (unattended)
	28150 - 28190	500	Narrow band modes	
	28190 - 28199		International Beacon Project	Regional time shared beacons, exclusively
	28199 - 28201		International Beacon Project	Worldwide time shared beacons, exclusively
	28201 - 28225		International Beacon Project	Continuous duty beacons, exclusively
	28225 - 28300	2700	All modes	Beacons
	28300 - 28320	2700	All modes	Digimodes, automatically controlled data stations (unattended)
	28320 - 29000	2700	All modes	28330 kHz - Digital Voice Centre of Activity 28360 kHz - SSB QRP Centre of Activity 28680 kHz - Image Centre of Activity
	29000 - 29100	6000	All modes	
	29100 - 29200	6000	All modes	FM simplex - 10 kHz channels
	29200 - 29300	6000	All modes	Digimodes, automatically controlled data stations (unattended)
	29300 - 29510	6000	Satellite Links	
	29510 - 29520		Guard Channel	
	29520 - 29590	6000	All modes	FM-Repeater input (RH1 - RH8)
29600	6000	All modes	FM Calling channel	
29610	6000	All modes	FM Simplex-Repeater (parrot, input + output)	
29620 - 29700	6000	All modes	FM-Repeater output (RH1-RH8)	

## DEFINITIONS

All modes	CW, Phone and those other modes listed as Centres of Activity, plus AM (consideration should then be given to adjacent channel users)
Narrow band modes	All modes using up to 500 Hz bandwidth, including CW, RTTY, PSK etc.
Digimodes	Any digital mode within the appropriate bandwidth, e.g. RTTY, PSK, MT63 etc.
Image modes	Any analogue or digital image modes within the appropriate bandwidth, e.g. SSTV, FAX

## NOTES

The frequencies in the bandplan are understood as "transmitted frequencies" (not those of the suppressed carrier!)

- ( 1 )                      Lowest dial setting for LSB Voice mode: 1843, 3603, 7053 kHz
- ( # )                      maximum bandwidth not specified, 500 Hz suggested
- ( ## )                     Highest dial setting for USB Voice mode on the 60m band: 5663 kHz

**CW**                              CW QSOs are accepted across all bands, except within beacon segments. (DV05\_C4\_Rec\_13)

**Sideband usage**                Sideband Usage: Below 10 MHz lower sideband (LSB) is recommended, and above 10 MHz use upper sideband (USB). The exception to this is on the 5 MHz band where USB is recommended.

**AM**                                Amplitude modulation (AM) may be used in the telephony sub-bands providing consideration is given to adjacent channel users. (NRRL Davos 05).

**OUT OF BAND:**                To prevent any out of band transmission the maximum dial setting for USB (upper sideband) Voice mode should be 3 kHz below upper band edge on bands 20m to 10m.

### **630m band - 472 - 479 kHz:**

Details shown in band plan above should be understood as "proposed usage" (VA14\_C4\_Rec\_02)

If a frequency is to be selected, particular attention must be paid to still existing Non Directional Beacons (NDB) of the radionavigaton service!

### **60m band - 5351.5 - 5366.5 kHz**

Details shown in band plan above should be understood as "proposed usage" (VIE16\_C4\_Rec\_02)

It is strongly recommended that frequencies within WRC-15 allocation only be used if there are no other frequencies available at 5 MHz under domestic (ITU-R article 4.4) permissions.

Local nets and long rag chew QSOS should not use the WRC-15 allocation at 5 MHz but should instead make use of the 3.5 MHz, 5 MHz domestic, or 7 MHz bands where there is more spectrum available.

## **Contests**

Contest activity shall not take place on the 5, 10, 18 and 24 MHz bands.

Non-contesting radio amateurs are recommended to use the contest-free HF bands (30, 17 and 12m) during the largest international contests. (DV05\_C4\_Rec\_07)

Member societies are encouraged to publish contest operating segments clearly in the rules of their contest and that those segments are considered with due respect to the IARU band plans. (Rec SC11\_C4\_02).

The CW contest-preferred segment from 7000-7025 kHz has been withdrawn from the Region 1 band plan. Societies should (therefore) encourage contest organisers to include a rule that restricts contest activity to a limited frequency range within the CW allocation. The choice of the frequency segment is left to the discretion of the contest organisers, but should take into account expected activity levels and show consideration for non-contest operation. (SC11\_C4\_Rec\_05).

## **Unmanned transmitting stations**

The term "automatically controlled data stations" includes Store and Forward stations.

Member Societies are reminded of the recommendation in the IARU Region 1 HF Band Plan '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'.

Unmanned transmitting stations, and operation involving unmanned transmitting stations, must adhere to the frequency and bandwidth limits of the band plan.

The operator connecting to an automatically controlled unmanned transmitting station is responsible for not causing interference.

This is particularly important in the 30 meter band where the amateur service only has secondary status.

Amateur radio operators may transmit messages via unmanned transmitting stations during coordinated emergency, and disaster preparedness exercises, limited to the duration of such exercises, using a bandwidth not exceeding 2 700 Hz.

Such communication should be announced regularly on the frequency, and radio amateurs not participating in the communication should cooperate by not transmitting on the frequency. (VA14\_C4\_Rec\_06)

## Remote controlled operation on HF

Remote controlled operation is defined to mean operation where a licensed operator controls an amateur radio station from a remote control terminal.

Where a station is operated remotely, the following conditions shall apply:

Remote operation must be permitted, or not objected to, by the Regulatory Authority of the country where the station is located.

1. The call sign to be used should be the call sign issued by the Regulatory Authority of the country in which the station is located. This applies irrespective of the location of the operator.
2. It should be noted that the CEPT T/R 61-01 agreement only applies to people using their own call sign, with the appropriate country prefix, when the operator is actually visiting that country, not for operation.
3. Any further requirements regarding the participation of remotely controlled stations in contests or award programmes are a matter for the various contests or award program organisers. (SC11\_C4\_REC\_07) , (VA14\_C4\_REC\_04)

## History

2005 Davos	Introduction of band plan by bandwidth.	Effective 1 January 2006
2008 Cavtat	Several modifications	Effective 29 March 2009
	CW segment extended from 7000-7035 kHz to 7000-7040 kHz. Narrow band modes, digimodes segment moved and extended from 7035-7038 kHz to 7040-7047 kHz.	
	Narrow band modes, digimodes, segment for automatically controlled stations (unattended) moved and extended from 7038-7040 kHz to 7047-7050 kHz.	
	All modes, digimodes, segment for automatically controlled stations (unattended) moved from 7040-7043 kHz to 7050-7053 kHz.	
	Introduction of all modes, digimodes segment 7053-7060 kHz.	
	Introduction of CW preferred contest segment 7000-7025 kHz.	
	Introduction of SSB preferred contest segments 7060-7100 kHz and 7130-7200 kHz	
	Introduction of Digital Voice Activity Centres: 3630 kHz, 7070 kHz, 14130 kHz, 18150 kHz, 21180 kHz, 24960 kHz, 28330 kHz.	
2011 Sun City	Several modifications	Effective 17 August 2011
	CW contest preferred segment 7000-7025 kHz withdrawn.	
	Segment 29100-29200 kHz changed from max. bandwidth 2700 Hz to max. 6000 Hz.	
	Introduction of new segment 29100-29200 kHz for FM simplex operation (10 kHz channels).	
	Removal of FM simplex channels 29520-29550 kHz and 29610-29650 kHz. Number of FM Repeater channels increased to eight; former FM simplex channels became new repeater input, respectively repeater output channels.	
	FM repeater channels renumbered, RH1 = 29520 kHz / 29620 kHz, RH8 = 29590 kHz / 29690 kHz	
	Introduction of FM Simplex Repeater 29610 kHz (parrot, input + output)	
2014 Varna	Several modifications	Effective 26 September 2014
	Change of max. bandwidth from 2700 Hz to max. 6000 Hz in segment 29000 - 29100 kHz.	
	Satellite segment 29300 - 29510 kHz: removal of downlink restriction	
2016 Vienna	Several modifications *	Effective 01 June 2016
	* to be ratified at 2017 General Conference	
	Digimode segment with max. bandwidth of 500 Hz extended from 10130 kHz to 10150 kHz	
	Introduction of Digimode segment 3570 kHz - 3580 kHz with max. bandwidth of 200 Hz	