

CHAPTER 3

AMATEUR-SATELLITE SERVICE

3.1 Applications of bands allocated to the amateur-satellite service

The following table describes typical applications of frequency bands available to the amateur-satellite service. Refer to RR Article 5 for the specific allocation status of each band.

Frequency band (kHz)	Metric reference	Frequency band (kHz) (R = Region)	Applications
7 000-7 100	40 m	All Regions	The HF bands are used only for limited amateur-satellite applications because of potential interference to and from terrestrial uses.
14 000-14 250	20 m	All Regions	
18 068-18 168	17 m	All Regions	
21 000-21 450	15 m	All Regions	
24 890-24 990	12 m	All Regions	
Frequency band (MHz)		Frequency band (MHz)	
28-29.7	10 m	All Regions	This band is used primarily in conjunction with an input or output in the 144 MHz band.
144-146	2 m	All Regions	These bands are in heavy use by numerous amateur satellites for inputs and outputs.
435-438	70 cm	All Regions, RR No. 5.282	
1 260-1 270	23 cm	All Regions, RR No. 5.282 Earth-to-space only	These bands are used as alternatives to the 144 MHz and 435 MHz bands because of congestion.
2 400-2 450	13 cm	All Regions, RR No. 5.282	
3 400-3 410	9 cm	Regions 2 and 3 only RR No. 5.282	
5 650-5 670	5 cm	All Regions, RR No. 5.282 Earth-to-space only	These bands are used for experimental amateur satellites.
5 830-5 850		All Regions secondary space-to-Earth only	
Frequency band (GHz)		Frequency band (GHz)	
10.45-10.5	3 cm	All Regions secondary	These bands are used for amateur-satellite communications.
24-24.05	1.2 cm	All Regions	
47-47.2	6 mm	All Regions	These bands are used for experimental amateur satellites.
76-77.5	4 mm	All Regions secondary	
77.5-78		All Regions primary	
78-81		All Regions secondary	
134-136	2 mm	All Regions primary	
136-141	2 mm	All Regions secondary	
241-248	1 mm	All Regions secondary	
248-250	1 mm	All Regions primary	