

# Initial Frequency Coordination for Spacecraft using the **Amateur Satellite Service**



Wavelength	Frequency Band (R = Region)	Applications
<b>10 m</b>	28.000 – 29.700 MHz (primary)	This band is used primarily in conjunction with an input or output in the 144 MHz band.
<b>2 m</b>	144 – 146 MHz (primary)	These bands are in heavy use by numerous amateur satellites for inputs and outputs.
<b>70 cm</b>	435 – 438 MHz (secondary) RR No. <b>5.282</b>	
<b>23 cm</b>	1260 – 1270 MHz (secondary) Earth-to-space only RR No. <b>5.282</b>	These bands are used as alternatives to the 144 MHz and 435 MHz bands because of congestion.
<b>13 cm</b>	2400 – 2450 MHz (secondary) RR No. <b>5.282</b>	
<b>9 cm</b>	3400 – 3410 MHz (secondary) Regions 2 and 3 only RR No. <b>5.282</b>	
<b>5 cm</b>	5650 – 5670 MHz (secondary) Earth-to-space only RR No. <b>5.282</b>	These bands are used for experimental amateur satellites.
	5830 – 5850 MHz (secondary) Space-to-earth only	
<b>3 cm</b>	10.45 – 10.50 GHz (secondary)	These bands are used for experimental amateur satellite communications.
<b>1.2 cm</b>	24.00 – 24.05 GHz (primary)	
<b>6 mm</b>	47.0 – 47.2 GHz (primary)	These bands are used for experimental amateur satellites.
<b>4 mm</b>	76.0 – 77.5 GHz (secondary)	
	77.5 – 78.0 GHz (primary)	
	78.0 – 81.0 GHz (secondary)	
	81.0 – 81.5 GHz (secondary) RR No. <b>5.561A</b>	
<b>2 mm</b>	134.0 – 136.0 GHz (primary)	
<b>2 mm</b>	136.0 – 141.0 GHz (secondary)	
<b>1 mm</b>	241.0 – 248.0 GHz (secondary)	
<b>1 mm</b>	248.0 – 250.0 GHz (primary)	