

ARRL Band Plans

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For sharing arrangements, see Section 97.303 of the FCC Rules. For detailed packet frequencies, see March 1988, page 51 (158,549 bytes, PDF file). Follow this link for phone patch, autopatch and HF/VHF/UHF operating guidelines.

160 Meters (1.8-2.0 MHz):

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|---------------|------------------------------------|
| 1.800 - 2.000 | CW |
| 1.800 - 1.810 | Digital Modes |
| 1.810 | CW QRP |
| 1.843-2.000 | SSB, SSTV and other wideband modes |
| 1.910 | SSB QRP |
| 1.995 - 2.000 | Experimental |
| 1.999 - 2.000 | Beacons |

80 Meters (3.5-4.0 MHz):

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|-------------|----------------------|
| 3.590 | RTTY/Data DX |
| 3.570-3.600 | RTTY/Data |
| 3.790-3.800 | DX window |
| 3.845 | SSTV |
| 3.885 | AM calling frequency |

40 Meters (7.0-7.3 MHz):

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|-------------|----------------------|
| 7.040 | RTTY/Data DX |
| 7.080-7.125 | RTTY/Data |
| 7.171 | SSTV |
| 7.290 | AM calling frequency |

30 Meters (10.1-10.15 MHz):

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| 10.130-10.140 | RTTY |
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| 10.140-10.150 | Packet |
|---------------|--------|

20 Meters (14.0-14.35 MHz):

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| 14.070-14.095 | RTTY |
| 14.095-14.0995 | Packet |
| 14.100 | NCDXF Beacons |
| 14.1005-14.112 | Packet |
| 14.230 | SSTV |
| 14.286 | AM calling frequency |

17 Meters (18.068-18.168 MHz):

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| 18.100-18.105 | RTTY |
| 18.105-18.110 | Packet |

15 Meters (21.0-21.45 MHz):

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|---------------|-----------|
| 21.070-21.110 | RTTY/Data |
| 21.340 | SSTV |

12 Meters (24.89-24.99 MHz):

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| 24.920-24.925 | RTTY |
| 24.925-24.930 | Packet |

10 Meters (28-29.7 MHz):

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|---------------|---------|
| 28.000-28.070 | CW |
| 28.070-28.150 | RTTY |
| 28.150-28.190 | CW |
| 28.200-28.300 | Beacons |
| 28.300-29.300 | Phone |
| 28.680 | SSTV |
| 29.000-29.200 | AM |
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|---------------|---------------------|
| 29.300-29.510 | Satellite Downlinks |
| 29.520-29.590 | Repeater Inputs |
| 29.600 | FM Simplex |
| 29.610-29.700 | Repeater Outputs |

6 Meters (50-54 MHz):

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|---------------|--|
| 50.0-50.1 | CW, beacons |
| 50.060-50.080 | beacon subband |
| 50.1-50.3 | SSB, CW |
| 50.10-50.125 | DX window |
| 50.125 | SSB calling |
| 50.3-50.6 | All modes |
| 50.6-50.8 | Nonvoice communications |
| 50.62 | Digital (packet) calling |
| 50.8-51.0 | Radio remote control (20-kHz channels) |
| 51.0-51.1 | Pacific DX window |
| 51.12-51.48 | Repeater inputs (19 channels) |
| 51.12-51.18 | Digital repeater inputs |
| 51.62-51.98 | Repeater outputs (19 channels) |
| 51.62-51.68 | Digital repeater outputs |
| 52.0-52.48 | Repeater inputs (except as noted; 23 channels) |
| 52.02, 52.04 | FM simplex |
| 52.2 | TEST PAIR (input) |
| 52.5-52.98 | Repeater output (except as noted; 23 channels) |
| 52.525 | Primary FM simplex |
| 52.54 | Secondary FM simplex |
| 52.7 | TEST PAIR (output) |
| 53.0-53.48 | Repeater inputs (except as noted; 19 channels) |
| 53.0 | Remote base FM simplex |
| 53.02 | Simplex |
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| 53.1, 53.2, 53.3, 53.4 | Radio remote control |
| 53.5-53.98 | Repeater outputs (except as noted; 19 channels) |
| 53.5, 53.6, 53.7, 53.8 | Radio remote control |
| 53.52, 53.9 | Simplex |

2 Meters (144-148 MHz):

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|-----------------|--|
| 144.00-144.05 | EME (CW) |
| 144.05-144.10 | General CW and weak signals |
| 144.10-144.20 | EME and weak-signal SSB |
| 144.200 | National calling frequency |
| 144.200-144.275 | General SSB operation |
| 144.275-144.300 | Propagation beacons |
| 144.30-144.50 | New OSCAR subband |
| 144.50-144.60 | Linear translator inputs |
| 144.60-144.90 | FM repeater inputs |
| 144.90-145.10 | Weak signal and FM simplex (145.01,03,05,07,09 are widely used for packet) |
| 145.10-145.20 | Linear translator outputs |
| 145.20-145.50 | FM repeater outputs |
| 145.50-145.80 | Miscellaneous and experimental modes |
| 145.80-146.00 | OSCAR subband |
| 146.01-146.37 | Repeater inputs |
| 146.40-146.58 | Simplex |
| 146.52 | National Simplex Calling Frequency |
| 146.61-146.97 | Repeater outputs |
| 147.00-147.39 | Repeater outputs |
| 147.42-147.57 | Simplex |
| 147.60-147.99 | Repeater inputs |

Notes: The frequency 146.40 MHz is used in some areas as a repeater input. This band plan has been proposed by the ARRL VHF-UHF Advisory Committee.

1.25 Meters (222-225 MHz):

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| 222.0-222.150 | Weak-signal modes |
| 222.0-222.025 | EME |
| 222.05-222.06 | Propagation beacons |
| 222.1 | SSB & CW calling frequency |
| 222.10-222.15 | Weak-signal CW & SSB |
| 222.15-222.25 | Local coordinator's option; weak signal, ACSB, repeater inputs, control |
| 222.25-223.38 | FM repeater inputs only |
| 223.40-223.52 | FM simplex |
| 223.52-223.64 | Digital, packet |
| 223.64-223.70 | Links, control |
| 223.71-223.85 | Local coordinator's option; FM simplex, packet, repeater outputs |
| 223.85-224.98 | Repeater outputs only |

Note: The 222 MHz band plan was adopted by the ARRL Board of Directors in July 1991.

70 Centimeters (420-450 MHz):

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| 420.00-426.00 | ATV repeater or simplex with 421.25 MHz video carrier control links and experimental |
| 426.00-432.00 | ATV simplex with 427.250-MHz video carrier frequency |
| 432.00-432.07 | EME (Earth-Moon-Earth) |
| 432.07-432.10 | Weak-signal CW |
| 432.10 | 70-cm calling frequency |
| 432.10-432.30 | Mixed-mode and weak-signal work |
| 432.30-432.40 | Propagation beacons |
| 432.40-433.00 | Mixed-mode and weak-signal work |
| 433.00-435.00 | Auxiliary/repeater links |
| 435.00-438.00 | Satellite only (internationally) |

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|---------------|--|
| 438.00-444.00 | ATV repeater input with 439.250-MHz video carrier frequency and repeater links |
| 442.00-445.00 | Repeater inputs and outputs (local option) |
| 445.00-447.00 | Shared by auxiliary and control links, repeaters and simplex (local option) |
| 446.00 | National simplex frequency |
| 447.00-450.00 | Repeater inputs and outputs (local option) |

33 Centimeters (902-928 MHz):

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| 902.0-903.0 | Narrow-bandwidth, weak-signal communications |
| 902.0-902.8 | SSTV, FAX, ACSSB, experimental |
| 902.1 | Weak-signal calling frequency |
| 902.8-903.0 | Reserved for EME, CW expansion |
| 903.1 | Alternate calling frequency |
| 903.0-906.0 | Digital communications |
| 906-909 | FM repeater inputs |
| 909-915 | ATV |
| 915-918 | Digital communications |
| 918-921 | FM repeater outputs |
| 921-927 | ATV |
| 927-928 | FM simplex and links |

Note: The 902 MHz band plan was adopted by the ARRL Board of Directors in July 1989

23 Centimeters (1240-1300 MHz):

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| 1240-1246 | ATV #1 |
| 1246-1248 | Narrow-bandwidth FM point-to-point links and digital, duplex with 1258-1260. |
| 1248-1258 | Digital Communications |
| 1252-1258 | ATV #2 |
| 1258-1260 | Narrow-bandwidth FM point-to-point links digital, duplexed with 1246-1252 |
| 1260-1270 | Satellite uplinks, reference WARC '79 |

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| 1260-1270 | Wide-bandwidth experimental, simplex ATV |
| 1270-1276 | Repeater inputs, FM and linear, paired with 1282-1288, 239 pairs every 25 kHz, e.g. 1270.025, .050, etc. |
| 1271-1283 | Non-coordinated test pair |
| 1276-1282 | ATV #3 |
| 1282-1288 | Repeater outputs, paired with 1270-1276 |
| 1288-1294 | Wide-bandwidth experimental, simplex ATV |
| 1294-1295 | Narrow-bandwidth FM simplex services, 25-kHz channels |
| 1294.5 | National FM simplex calling frequency |
| 1295-1297 | Narrow bandwidth weak-signal communications (no FM) |
| 1295.0-1295.8 | SSTV, FAX, ACSSB, experimental |
| 1295.8-1296.0 | Reserved for EME, CW expansion |
| 1296.00-1296.05 | EME-exclusive |
| 1296.07-1296.08 | CW beacons |
| 1296.1 | CW, SSB calling frequency |
| 1296.4-1296.6 | Crossband linear translator input |
| 1296.6-1296.8 | Crossband linear translator output |
| 1296.8-1297.0 | Experimental beacons (exclusive) |
| 1297-1300 | Digital Communications |

2300-2310 and 2390-2450 MHz:

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|---------------|----------------------------------|
| 2300.0-2303.0 | High-rate data |
| 2303.0-2303.5 | Packet |
| 2303.5-2303.8 | TTY packet |
| 2303.9-2303.9 | Packet, TTY, CW, EME |
| 2303.9-2304.1 | CW, EME |
| 2304.1 | Calling frequency |
| 2304.1-2304.2 | CW, EME, SSB |
| 2304.2-2304.3 | SSB, SSTV, FAX, Packet AM, Amtor |
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|-----------------|--|
| 2304.30-2304.32 | Propagation beacon network |
| 2304.32-2304.40 | General propagation beacons |
| 2304.4-2304.5 | SSB, SSTV, ACSSB, FAX, Packet AM, Amtor experimental |
| 2304.5-2304.7 | Crossband linear translator input |
| 2304.7-2304.9 | Crossband linear translator output |
| 2304.9-2305.0 | Experimental beacons |
| 2305.0-2305.2 | FM simplex (25 kHz spacing) |
| 2305.20 | FM simplex calling frequency |
| 2305.2-2306.0 | FM simplex (25 kHz spacing) |
| 2306.0-2309.0 | FM Repeaters (25 kHz) input |
| 2309.0-2310.0 | Control and auxiliary links |
| 2390.0-2396.0 | Fast-scan TV |
| 2396.0-2399.0 | High-rate data |
| 2399.0-2399.5 | Packet |
| 2399.5-2400.0 | Control and auxiliary links |
| 2400.0-2403.0 | Satellite |
| 2403.0-2408.0 | Satellite high-rate data |
| 2408.0-2410.0 | Satellite |
| 2410.0-2413.0 | FM repeaters (25 kHz) output |
| 2413.0-2418.0 | High-rate data |
| 2418.0-2430.0 | Fast-scan TV |
| 2430.0-2433.0 | Satellite |
| 2433.0-2438.0 | Satellite high-rate data |
| 2438.0-2450.0 | WB FM, FSTV, FMTV, SS experimental |

Note: The 2300 MHz band plan was adopted by the ARRL Board of Directors in January 1991

Note: The following band plans were adopted by the ARRL Board of Directors in July 1988

3300-3500 MHz:

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|---------------|---------------------|
| 3456.3-3456.4 | Propagation beacons |
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5650-5925 MHz:

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| 5760.3-5760.4 | Propagation beacons |
|---------------|---------------------|

10.00-10.50 GHz:

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|---------|---|
| 10.368 | Narrow band calling frequency 10.3683-10.3684 Propagation beacons |
| 10.3640 | Calling frequency |

Above 10.50 GHz:*

All modes and licensees (except Novices) are authorized on the following bands:

24.0-24.25 GHz
 47.0-47.2 GHz
 76-81.0 GHz
 122.25-123 GHz
 134-141 GHz
 241.0-250.0 GHz
 All above 275 GHz

* US amateurs must check Sections 97.301, 97.303, 97.305 and 97.307 for sharing requirements before operating.

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