

Aviation Radio Frequency Bands (Radio Spectrum Aviation Bands)

Band	Frequency
Army Helicopters	34.15, 34.65, 34.75 MHz
Army Helicopter Towers	41.50 MHz
Non-Directional Beacons (NDB)	190 – 435 kHz, 510 - 535 kHz
HF Communications	2100 - 28,000 kHz
NAVAID (Marker Beacons)	75 MHz
Terminal VOR / ILS Localizer	108 - 112 MHz (80 channels)
VOR / SCAT-I Radio navigation data link	112 – 117.950 MHz (120 Channels)
VHF Air/Ground Communications	118 - 137 MHz (760 channels)
Fixed, Mobile	138 - 150.8 MHz, 162 - 174 MHz
UHF Air/Ground Communications (U.S. Military)	225 - 328.6MHz, 335.4 - 400 MHz
ILS Glide Slope	328.6 - 335.4 MHz
Fixed, Mobil	406.1 - 420 MHz
RMM, LLWAS, LDRCL, etc.	932 – 935MHz, 941 - 944 MHz
NAVAID (TACAN / DME, etc.)	960 - 1215 MHz
Air Traffic Control Radar Beacon, Mode S, TCAS (Traffic Collision Avoidance System)	1030MHz, 1090 MHz
Air Route Surveillance Radar (ARSR), GPS and GLONASS L1	1215 - 1400 MHz
Satellite-Based Comm. (To Aircraft)	1545 - 1559 MHz
Satellite Navigation, GPS & GLONASS L1	1559 - 1610 MHz
Satellite-Based Comm. (From Aircraft)	1646.5 - 1660.5 MHz
LDRCL, fixed links	1710 - 1850 MHz
Airport Surveillance, Weather Radar	2700 - 3000 MHz
Microwave Landing System (MLS)	5000 - 5250 MHz
TDWR (Terminal Doppler Weather Radar)	5600 - 5650 MHz
RCL (Remote Communications Link)	7125 - 8500 MHz
Military Precision Approach Radar	9000 - 9200 MHz
Microwave Link	14.4 - 15.35 GHz, 21.2 - 23.6 GHz
Radar (ASDE-3)	15.7 - 16.2 GHz

Aviation VHF Radio Frequency Assignment Plan

Aviation VHF Radio Frequency Assignment Plan	
Assigned	Frequency (108 – 137MHz)
Navigation 50kHz spacing	108 - 112
NAVAIDS - VOR / localizer	108.000 - 117.950
Radio Navigation Land Test	108.000, 108.050, 108.100, 108.150
ILS localizers	108.100 - 111.950

Communication 25kHz spacing	118 -137
Air Traffic Control (25 kHz channel spacing) (Towers/ARTCC's)	118.000 - 121.400
121.5 Band Protection (Emergency)	121.425 - 121.475, 121.525 - 121.575
Emergency Search and Rescue Aviation Distress (ELT Operational Check, 5 Sec)	121.500
Airport Utility and ELT Test (Ground Control)	121.600 - 121.925 121.650, 121.700, 121.750, 121.800, 121.850, 121.9000
Aviation Instruction and Support	121.950
FSS Aircraft Advisory (Private aircraft)	121.975, 122.025, 122.075 - 122.675, 122.075
En-route Flight Advisory Service (EFAS)	122.000
FSS Aircraft Advisory	122.050
FSS Aircraft Advisory (Control towers)	122.100
UNICOM (Uncontrolled Airport and Utility)	122.700
UNICOM (Private aircraft) (Uncontrolled Airport and Utility)	122.725
Uncontrolled airports or above 10,000'	122.725, 122.800, 123.000, 123.050, 123.075
Air-to-air (Private fixed wing aircraft) Communi- cations / Operations	122.750
Aviation Instruction / Support	122.775
UNICOM (Uncontrolled Airport)	122.800, 122.825, 122.875
Domestic VHF	122.825, 122.875
Domestic VHF (Special Use / Aviation Support)	122.850
Multicom	122.850
Multicom Temporary activities: Seasonal Emergency Nature or Search and Rescue Airports with no tower, FSS, or UNICOM	122.900
Multicom (Private aircraft / Natural Resources)	122.925
Multicom Airports with a control tower or FSS on airport	122.950
Unicom (Private aircraft) (Airports with no control tower)	122.950, 122.975, 123.050, 123.075
Uncontrolled airports/heliports	122.975
Unicom (Airports with no control tower)	123.000
Aviation Support	123.300, 123.500
Air-to-air communications / Operations (Private rotor wing aircraft)	123.025

Aeronautical Search and Rescue (SAR) /Temporary control towers	123.100
Flight Test Stations	123.125 - 123.575
Flight Test Station (Itinerant -Transient)	123.125, 123.150, 123.175,123.400, 123.575
Airport Control Towers	123.600 - 128.800,132.025 - 135.975
C.A.P. (Civil Air Patrol) Authorized use only Civil Air Patrol Training Beacons	121.600 121.600, 121.775
Air Traffic Control (Military Common)	126.200, 134.100
Domestic VHF En-route and operations	128.825 - 132.000
Radio Navigation Land Test	134.550, 134.700
Flight Inspection Use	135.850
Airport Control Towers and ATIS	135.950, 136.000 - 136.075 136.125 - 136.175, 136.225 - 136.250, 136.300 - 136.350
Reserved for future UNICOM or AWOS	136.100, 136.200, 136.275, 136.375,136.475
Domestic VHF En-route and Operations	136.400 - 136.450, 136.500 - 136.875
International & Domestic VHF En-route and Operations	136.900 - 136.975

Some Other Frequencies (above 137.000 special equipment required)

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Civil Air Patrol	143.750
Civil Air Patrol Repeaters (Secondary)	148.125
Civil Air Patrol Repeaters (Primary)	148.150
Air to ship communications	143.900, 148.150, 156.300, 156.375, 156.400, 156.425, 156.450, 156.625, 156.800, 156.900, 157.425
Emergency Search and Rescue (ELT Operational Check, 5 Sec)	243.000
ILS glide path	328.600
Emergency and distress (ELT's)	406.250

Other Frequencies

Aviation Support (Various) Frequencies	
Balloons	122.250
Aviation instruction (Glider, Balloon)	123.300
Aviation instruction (Glider, Balloon)	123.500
Air-to-air communications and private airports	122.750
Air-to-air communications and private airports	122.850
Air-to-air communications (General Aviation Helicopters)	123.025

Miscellaneous Frequencies	
Standard Emergency Freq. (ELTs)	121.500
SAR (Search and Rescue)	123.100
SAR (Search and Rescue) Training	122.900
Control tower (Special Events)	123.100
En-route airline ops (local area)	122.825, 122.875
Air-to-air (private aircraft)	122.750
Air-to-air (Helicopter)	123.025
ACARS (Digital Service)	131.550

There are frequencies assigned for blimp (airship) operations.

Goodyear Blimp	
Common Blimp port frequency	123.0500
Goodyear Company channel	132.0000
Blimp Operations NBFM	151.6250