GENERAL INFORMATION

117.975 - 137.0 MHz AIR TRAFFIC CONTROL OPERATIONS

The minimum separation between assignable frequencies in the aeronautical mobile (R) service shall be 8.33 kHz.

It is recognized that in some regions or areas, 100 kHz, 50 kHz or 25 kHz channel spacing provides an adequate number of frequencies suitably related to international and national air services and that equipment designed specifically for 100 kHz, 50 kHz or 25 kHz channel spacing will remain adequate for services operating within such regions or areas. It is further recognized that assignments based on 25 kHz channel spacing as well as 8.33 kHz channel spacing may continue to co-exist within one region or area.

118 -	121.4	MHz
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inclusive

International and National Aeronautical Mobile

Services

121.5 MHz

121.5 MHz

121.6 - 121.9917 MHz inclusive International and National Aerodrome Surface Communications

122 - 123.05 MHz inclusive

National Aeronautical Mobile Services

molacivo

123.1 MHz

123.45 MHz

Auxiliary frequency SAR

123.15 - 123.6917 MHz inclusive National Aeronautical Mobile Services with the exception of 123.45 MHz.

Worldwide air-to-air communications

123.7 - 129.6917 MHz inclusive International and National Aeronautical Mobile

Services

129.7 - 130.8917 MHz National Aeronautical Mobile Services

130.9 - 136.875 MHz

inclusive

International and National Aeronautical Mobile

Services

136.9 - 136.975 MHz

inclusive

International and National Aeronautical Mobile

Services

Reserved for VHF air-ground data link communications.

EFFECTIVE RANGE OF RADIO TRANSMISSION

The range of VHF transmissions is normally about 7% more than an actual line of sight, and can be determined by the formula:

Wh	Where:		
D	=	distance in nautical miles;	
h	=	height of the aircraft station above earth;	
K	=	(corresponding to an effective earth's radius of 4/3 of the actual radius);	
	=	2.22 when h is expressed in metres; and	
	=	1.23 when h is expressed in feet.	