

*Telegraphy.*<sup>5</sup> A form of telecommunication in which the transmitted information is intended to be recorded on arrival as a graphic document; the transmitted information may sometimes be presented in an alternative form or may be stored for subsequent use. (CS)

*Telemetry.* The use of telecommunication for automatically indicating or recording measurements at a distance from the measuring instrument. (RR)

*Telephony.* A form of telecommunication primarily intended for the exchange of information in the form of speech. (CS)

*Television.* A form of telecommunication for the transmission of transient images of fixed or moving objects. (RR)

*Terrestrial Radiocommunication.* Any radiocommunication other than space radiocommunication or radio astronomy. (RR)

*Terrestrial Station.* A station effecting terrestrial radiocommunication.

NOTE: In these [international Radio] Regulations, unless otherwise stated, any station is a terrestrial station. (RR)

*Time Hopping Systems.* A time hopping system is a spread spectrum system in which the period and duty cycle of a pulsed RF carrier are varied in a pseudorandom manner under the control of a coded sequence. Time hopping is often used effectively with frequency hopping to form a hybrid time-division, multiple-access (TDMA) spread spectrum system.

*Transponder.* A transmitter-receiver facility the function of which is to transmit signals automatically when the proper interrogation is received. (FCC)

*Tropospheric Scatter.* The propagation of radio waves by scattering as a result of irregularities or discontinuities in the physical properties of the troposphere. (RR)

*Unwanted Emissions.* Consist of spurious emissions and out-of-band emissions. (RR)

[49 FR 2368, Jan. 19, 1984, as amended at 50 FR 25239, June 18, 1985; 51 FR 37399, Oct. 22, 1986; 52 FR 7417, Mar. 11, 1987; 54 FR 49980, Dec. 4, 1990; 55 FR 28761, July 13, 1990; 56 FR 42703, Aug. 29, 1991; 58 FR 68058, Dec. 23, 1993; 62 FR 26242, May 13, 1997; 65 FR 60109, Oct. 10, 2000; 66 FR 50840, Oct. 5, 2001; 68 FR 74330, Dec. 23, 2003; 70 FR 23039, May 4, 2005; 70 FR 46583, Aug. 10, 2005; 71 FR 15619, Mar. 29, 2006]

**Subpart B—Allocation, Assignment, and Use of Radio Frequencies**

SOURCE: 49 FR 2373, Jan. 19, 1984, unless otherwise noted.

**§2.100 International regulations in force.**

The ITU *Radio Regulations*, edition of 2004, have been incorporated to the extent practicable in Subparts A and B of this part.

[70 FR 46583, Aug. 10, 2005]

**§2.101 Frequency and wavelength bands.**

(a) The radio spectrum shall be subdivided into nine frequency bands, which shall be designated by progressive whole numbers in accordance with the following table. As the unit of frequency is the hertz (Hz), frequencies shall be expressed:

- (1) In kilohertz (kHz), up to and including 3 000 kHz;
- (2) In megahertz (MHz), above 3 MHz, up to and including 3 000 MHz;
- (3) In gigahertz (GHz), above 3 GHz, up to and including 3 000 GHz.

(b) However, where adherence to these provisions would introduce serious difficulties, for example in connection with the notification and registration of frequencies, the lists of frequencies and related matters, reasonable departures may be made.

Band number	Symbols	Frequency range (lower limit exclusive, upper limit inclusive)	Corresponding metric subdivision	Metric abbreviations for the bands
4 .....	VLF .....	3 to 30 kHz .....	Myriametric waves .....	B.Mam

<sup>5</sup>A graphic document records information in a permanent form and is capable of being filed and consulted; it may take the form of

written or printed matter or of a fixed image.