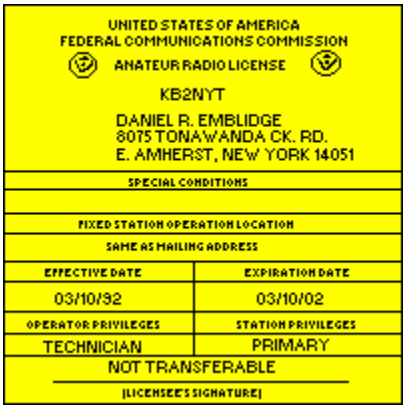
# Band Plan for Windows(TM)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

AMATEUR RADIO LICENSE

KB2NYT

DANIEL R. EMBLIDGE
8075 TONAWANDA CK. RD.
E. AMHERST, NEW YORK 14051

SPECIAL CONDITIONS

FIXED STATION OPERATION LOCATION

SAME AS MAILING ADDRESS

| EFFECTIVE DATE | EXPIRATION DATE |
|---|---|
| 03/10/92 | 03/10/02 |
| OPERATOR PRIVILEGES | STATION PRIVILEGES |
| TECHNICIAN | PRIMARY |

NOT TRANSFERABLE

(LICENSEE'S SIGNATURE)

## Help Contents:

## Calling Frequencies

| | |
|---|---|
| 10 meters | 29.600 FM |
| 6 meters | 50.100 CW |
| | 50.110 DX SSB |
| | 50.200 US SSB |
| | 50.525 FM |
| 2 meters | 144.100 CW |
| | 144.200 US SSB |
| | 146.520 FM |
| 1-1/4 meters | 222.100 CW/SSB |
| | 223.500 FM |
| 70 cm | 432.100 CW/SSB |
| | 446.000 FM |
| 33 cm | 903.100 CW/SSB |
| | 906.500 FM |
| 23 cm | 1296.100 CW/SSB |
| | 1294.500 FM |

## Definitions

MF
HF
VHF
UHF

class
CW
DATA
IMAGE
khz
LSB
MCW
mode
PHONE
RTTY
SSB

**MF**
Medium Frequency 300 khz to 3 mhz.

**HF**
High Frequency 3mhz to 30 mhz.

**VHF**
Very High Frequency 30 mhz to 300 mhz.

**UHF**
Ultra High Frequency 300 mhz to 3000 mhz.

**mode**
Mode of operation.  SSB, CW, Packet, RTTY etc.

**class**
License class  N=Novice, T=Technician, T+=Technician + 5WPM code, G=General, A=Advanced, E=Extra.

**LSB**
Lower Side Band

**SSB**
Single Side Band

**khz**
Kilohertz-Unit of measure of frequency.  1000 hertz.

**CW**
Continuous Wave.
Morse Code by on off keying of a carrier.

**MCW**
Modulated CW.
Bandwidth may not exceed that of a phone emission of the same modulation type.

**PHONE**
Voice communications.
Below 29.0 mhz, bandwidth may not exceed that of a communications quality A3E emission. This is 6 khz. Above 29.0 mhz, no amateur station transmission shall occupy more bandwidth than necessary for the information rate and emission type being transmitted.

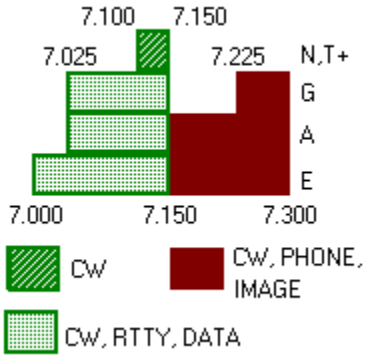
**RTTY**
Radio Teletype.
Only a RTTY or data emission using the International Telegraphs Alphabet No. 2 code, the International Radio Consultative Committee Recommendation CCIR 476-2, 476-3, 476-4, or 625 code, or the American National Standards Institute X3.4-1977 or International Alphabet No. 5 defined in International Telegraph and Telephone Consultative Committee Recommendation T.50 or in International Organization for Standardization, International Standard ISO 646, and extensions as provided for in CCITT Recommendation T.61. Below 28.0 mhz the symbol rate may not exceed 300 bauds, or for frequency-shift keying, the frequency shift between mark and space must not exceed 1 khz. Between 28.0 and 28.3 mhz, the symbol rate may not exceed 1200 bauds or for frequency-shift keying, the frequency shift between mark and space must not exceed 1khz. Between 50.1 and 51.0 mhz and 144.1 and 148.0 mhz, the symbol rate must not exceed 19.6 kilobauds. The authorized bandwidth is 20 khz. Between 222.0 and 225.0 and 420.0 and 450.0 mhz the symbol rate must not exceed 56 kilobauds. The authorized bandwidth is 100 khz.

**IMAGE**
TV and FAX
Below 225.0 mhz, no non-phone emission shall exceed 6 khz. Above 225.0 mhz, no amateur station transmission shall occupy more bandwidth than necessary for the information rate and emission type being transmitted.

**DATA**

Only a RTTY or data emission using the International Telegraphs Alphabet No. 2 code, the International Radio Consultative Committee Recommendation CCIR 476-2, 476-3, 476-4, or 625 code, or the American National Standards Institute X3.4-1977 or International Alphabet No. 5 defined in International Telegraph and Telephone Consultative Committee Recommendation T.50 or in International Organization for Standardization, International Standard ISO 646, and extensions as provided for in CCITT Recommendation T.61. Below 28.0 mhz the symbol rate may not exceed 300 bauds, or for frequency-shift keying, the frequency shift between mark and space must not exceed 1 khz. Between 28.0 and 28.3 mhz, the symbol rate may not exceed 1200 bauds or for frequency-shift keying, the frequency shift between mark and space must not exceed 1khz. Between 50.1 and 51.0 mhz and 144.1 and 148.0 mhz, the symbol rate must not exceed 19.6 kilobauds. The authorized bandwidth is 20 khz. Between 222.0 and 225.0 and 420.0 and 450.0 mhz the symbol rate must not exceed 56 kilobauds. The authorized bandwidth is 100 khz.

## How to Read the Charts




This is an example of one of the charts. The key at the bottom of the chart shows what mode(s) are available in that particular segment. The letters at the right of the chart show which segment is available to each class of license. It is important to remember to take into account the bandwidth of your mode of operation. Your entire signal must stay within the limits of your privileges! An Advanced class licensee operating LSB on 7.150 would be illegal. The average width of a SSB signal is 3 khz. This would put some of his emissions into the CW segment!