

## ANNEX H

## Assignment Guide for Maritime Mobile Bands 4-26 MHz

**TABLE 1: Table of Single-Sideband Transmitting Frequencies (kHz) for Duplex (Two-Frequency) Operation**

(ITU RR Appendix 17 Part B Section I, Sub-Section A, and Appendix 25)

**Assignable Frequencies:**

| Channel No.          | 4 MHz Band                          |                |                                    |                |
|----------------------|-------------------------------------|----------------|------------------------------------|----------------|
|                      | Coast Stations<br>4352.4-4436.4 kHz |                | Ship Stations<br>4066.4-4144.4 kHz |                |
|                      | Carrier Freq.                       | Assigned Freq. | Carrier Freq.                      | Assigned Freq. |
| 401                  | 4357                                | 4358.4         | 4065                               | 4066.4         |
| 402                  | 4360                                | 4361.4         | 4068                               | 4069.4         |
| 403                  | 4363                                | 4364.4         | 4071                               | 4072.4         |
| 404                  | 4366                                | 4367.4         | 4074                               | 4075.4         |
| 405                  | 4369                                | 4370.4         | 4077                               | 4078.4         |
| 406                  | 4372                                | 4373.4         | 4080                               | 4081.4         |
| 407                  | 4375                                | 4376.4         | 4083                               | 4084.4         |
| 408                  | 4378                                | 4379.4         | 4086                               | 4087.4         |
| 409                  | 4381                                | 4382.4         | 4089                               | 4090.4         |
| 410                  | 4384                                | 4385.4         | 4092                               | 4093.4         |
| 411                  | 4387                                | 4388.4         | 4095                               | 4096.4         |
| 412                  | 4390                                | 4391.4         | 4098                               | 4099.4         |
| 413                  | 4393                                | 4394.4         | 4101                               | 4102.4         |
| 414                  | 4396                                | 4397.4         | 4104                               | 4105.4         |
| 415                  | 4399                                | 4400.4         | 4107                               | 4108.4         |
| 416                  | 4402                                | 4403.4         | 4110                               | 4111.4         |
| 417                  | 4405                                | 4406.4         | 4113                               | 4114.4         |
| 418                  | 4408                                | 4409.4         | 4116                               | 4117.4         |
| 419                  | 4411                                | 4412.4         | 4119                               | 4120.4         |
| 420                  | 4414                                | 4415.4         | 4122                               | 4123.4         |
| 421                  | 4417*                               | 4418.4*        | 4125* <sup>4</sup>                 | 4126.4*        |
| 422                  | 4420                                | 4421.4         | 4128                               | 4129.4         |
| 423                  | 4423                                | 4424.4         | 4131                               | 4132.4         |
| 424                  | 4426                                | 4427.4         | 4134                               | 4135.4         |
| 425                  | 4429                                | 4430.4         | 4137                               | 4138.4         |
| 426                  | 4432                                | 4433.4         | 4140                               | 4141.4         |
| 427 <sup>2</sup>     | 4435                                | 4436.4         | 4143                               | 4144.4         |
| 428 <sup>1 2 3</sup> | 4351                                | 4352.4         | -                                  | -              |
| 429 <sup>1 2 3</sup> | 4354                                | 4355.4         | -                                  | -              |

| TABLE 1 - Continued |                                     |                |                                    |                |
|---------------------|-------------------------------------|----------------|------------------------------------|----------------|
| Channel No.         | 6 MHz Band                          |                |                                    |                |
|                     | Coast Stations<br>6502.4-6523.4 kHz |                | Ship Stations<br>6201.4-6222.4 kHz |                |
|                     | Carrier Freq.                       | Assigned Freq. | Carrier Freq.                      | Assigned Freq. |
| 601                 | 6501                                | 6502.4         | 6200                               | 6201.4         |
| 602                 | 6504                                | 6505.4         | 6203                               | 6204.4         |
| 603                 | 6507                                | 6508.4         | 6206                               | 6207.4         |
| 604                 | 6510                                | 6511.4         | 6209                               | 6210.4         |
| 605                 | 6513                                | 6514.4         | 6212                               | 6213.4         |
| 606                 | 6516*                               | 6517.4*        | 6215* <sup>5</sup>                 | 6216.4*        |
| 607 <sup>2</sup>    | 6519                                | 6520.4         | 6218                               | 6219.4         |
| 608 <sup>2</sup>    | 6522                                | 6523.4         | 6221                               | 6222.4         |

| TABLE 1 - Continued |                                     |                |                                    |                |
|---------------------|-------------------------------------|----------------|------------------------------------|----------------|
| Channel No.         | 8 MHz Band                          |                |                                    |                |
|                     | Coast Stations<br>8708.4-8813.4 kHz |                | Ship Stations<br>8196.4-8292.4 kHz |                |
|                     | Carrier Freq.                       | Assigned Freq. | Carrier Freq.                      | Assigned Freq. |
| 801                 | 8719                                | 8720.4         | 8195                               | 8196.4         |
| 802                 | 8722                                | 8723.4         | 8198                               | 8199.4         |
| 803                 | 8725                                | 8726.4         | 8201                               | 8202.4         |
| 804                 | 8728                                | 8729.4         | 8204                               | 8205.4         |
| 805                 | 8731                                | 8732.4         | 8207                               | 8208.4         |
| 806                 | 8734                                | 8735.4         | 8210                               | 8211.4         |
| 807                 | 8737                                | 8738.4         | 8213                               | 8214.4         |
| 808                 | 8740                                | 8741.4         | 8216                               | 8217.4         |
| 809                 | 8743                                | 8744.4         | 8219                               | 8220.4         |
| 810                 | 8746                                | 8747.4         | 8222                               | 8223.4         |
| 811                 | 8749                                | 8750.4         | 8225                               | 8226.4         |
| 812                 | 8752                                | 8753.4         | 8228                               | 8229.4         |
| 813                 | 8755                                | 8756.4         | 8231                               | 8232.4         |
| 814                 | 8758                                | 8759.4         | 8234                               | 8235.4         |
| 815                 | 8761                                | 8762.4         | 8237                               | 8238.4         |
| 816                 | 8764                                | 8765.4         | 8240                               | 8241.4         |
| 817                 | 8767                                | 8768.4         | 8243                               | 8244.4         |
| 818                 | 8770                                | 8771.4         | 8246                               | 8247.4         |
| 819                 | 8773                                | 8774.4         | 8249                               | 8250.4         |
| 820                 | 8776                                | 8777.4         | 8252                               | 8253.4         |
| 821                 | 8779*                               | 8780.4*        | 8255*                              | 8256.4*        |
| 822                 | 8782                                | 8783.4         | 8258                               | 8259.4         |
| 823                 | 8785                                | 8786.4         | 8261                               | 8262.4         |
| 824                 | 8788                                | 8789.4         | 8264                               | 8265.4         |
| 825                 | 8791                                | 8792.4         | 8267                               | 8268.4         |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>8 MHz Band</b>                           |                       |  |                       |
|                            | <b>Coast Stations<br/>8708.4-8813.4 kHz</b> |                       | <b>Ship Stations<br/>8196.4-8292.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                        | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                       | <b>Assigned Freq.</b> |
| 826                        | 8794  | 8795.4                | 8270                                       | 8271.4                |
| 827                        | 8797  | 8798.4                | 8273                                       | 8274.4                |
| 828                        | 8800  | 8801.4                | 8276                                       | 8277.4                |
| 829                        | 8803  | 8804.4                | 8279                                       | 8280.4                |
| 830                        | 8806  | 8807.4                | 8282                                       | 8283.4                |
| 831                        | 8809  | 8810.4                | 8285                                       | 8286.4                |
| 832                        | 8812  | 8813.4                | 8288                                       | 8289.4                |
| 833                        | 8291 <sup>7</sup>                           | 8292.4                | 8291 <sup>7</sup>                          | 8292.4                |
| 834                        | 8707  | 8708.4                |  |                       |
| 835 <sup>2 3 6</sup>       | 8710  | 8711.4                |  |                       |
| 836 <sup>2 3 6</sup>       | 8713  | 8714.4                |  |                       |
| 837 <sup>2 3 6</sup>       | 8716  | 8717.4                |  |                       |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>12/13 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>13078.4-13198.4 kHz</b> |                       | <b>Ship Stations<br/>12331.4-12351.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 1201                       | 13077   | 13078.4               | 12230  | 12231.4               |
| 1202                       | 13080   | 13081.4               | 12233  | 12234.4               |
| 1203                       | 13083   | 13084.4               | 12236  | 12237.4               |
| 1204                       | 13086   | 13087.4               | 12239  | 12240.4               |
| 1205                       | 13089   | 13090.4               | 12242  | 12243.4               |
| 1206                       | 13092   | 13093.4               | 12245  | 12246.4               |
| 1207                       | 13095   | 13096.4               | 12248  | 12249.4               |
| 1208                       | 13098   | 13099.4               | 12251  | 12251.4               |
| 1209                       | 13101   | 13102.4               | 12254  | 12255.4               |
| 1210                       | 13104   | 13105.4               | 12257  | 12258.4               |
| 1211                       | 13107   | 13108.4               | 12260  | 12261.4               |
| 1212                       | 13110   | 13111.4               | 12263  | 12264.4               |
| 1213                       | 13113   | 13114.4               | 12266  | 12267.4               |
| 1214                       | 13116   | 13117.4               | 12269  | 12270.4               |
| 1215                       | 13119   | 13120.4               | 12272  | 12273.4               |
| 1216                       | 13122   | 13123.4               | 12275  | 12276.4               |
| 1217                       | 13125   | 13126.4               | 12278  | 12279.4               |
| 1218                       | 13128   | 13129.4               | 12281  | 12282.4               |
| 1219                       | 13131   | 13132.4               | 12284  | 12285.4               |
| 1220                       | 13134   | 13135.4               | 12287  | 12288.4               |
| 1221                       | 13137*  | 13138.4*              | 12290* <sup>8</sup>                          | 12291.4*              |
| 1222                       | 13140   | 13141.4               | 12293  | 12294.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>12/13 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>13078.4-13198.4 kHz</b> |                       | <b>Ship Stations<br/>12331.4-12351.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 1223                       | 13143   | 13144.4               | 12296  | 12297.4               |
| 1224                       | 13146   | 13147.4               | 12299  | 12300.4               |
| 1225                       | 13149   | 13150.4               | 12302  | 12303.4               |
| 1226                       | 13152   | 13153.4               | 12305  | 12306.4               |
| 1227                       | 13155   | 13156.4               | 12308  | 12309.4               |
| 1228                       | 13158   | 13159.4               | 12311  | 12312.4               |
| 1229                       | 13161   | 13162.4               | 12314  | 12315.4               |
| 1230                       | 13164   | 13165.4               | 12317  | 12318.4               |
| 1231                       | 13167   | 13168.4               | 12320  | 12321.4               |
| 1232                       | 13170   | 13171.4               | 12323  | 12324.4               |
| 1233 <sup>2</sup>          | 13173   | 13174.4               | 12326  | 12327.4               |
| 1234 <sup>2</sup>          | 13176   | 13177.4               | 12329  | 12330.4               |
| 1235 <sup>2</sup>          | 13179   | 13180.4               | 12332  | 12333.4               |
| 1236 <sup>2</sup>          | 13182   | 13183.4               | 12335  | 12336.4               |
| 1237 <sup>2</sup>          | 13185   | 13186.4               | 12338  | 12339.4               |
| 1238 <sup>2</sup>          | 13188   | 13189.4               | 12341  | 12342.4               |
| 1239 <sup>2</sup>          | 13191   | 13192.4               | 12344  | 12345.4               |
| 1240 <sup>2</sup>          | 13194   | 13195.4               | 12347  | 12348.4               |
| 1241 <sup>2</sup>          | 13197   | 13198.4               | 12350  | 12351.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>16/17 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>17243.4-17408.4 kHz</b> |                       | <b>Ship Stations<br/>16361.4-17526.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 1601                       | 17242   | 17243.4               | 16360  | 16361.4               |
| 1602                       | 17245   | 17246.4               | 16363  | 16364.4               |
| 1603                       | 17248   | 17249.4               | 16366  | 16367.4               |
| 1604                       | 17251   | 17252.4               | 16369  | 16370.4               |
| 1605                       | 17254   | 17255.4               | 16372  | 16373.4               |
| 1606                       | 17257   | 17258.4               | 16375  | 16376.4               |
| 1607                       | 17260   | 17261.4               | 16378  | 16379.4               |
| 1608                       | 17263   | 17264.4               | 16381  | 16382.4               |
| 1609                       | 17266   | 17267.4               | 16384  | 16385.4               |
| 1610                       | 17269   | 17270.4               | 16387  | 16388.4               |
| 1611                       | 17272   | 17273.4               | 16390  | 16391.4               |
| 1612                       | 17275   | 17276.4               | 16393  | 16394.4               |
| 1613                       | 17278   | 17279.4               | 16396  | 16397.4               |
| 1614                       | 17281   | 17282.4               | 16399  | 16400.4               |
| 1615                       | 17284   | 17285.4               | 16402  | 16403.4               |

**TABLE 1 - Continued**

| Channel No.       | 16/17 MHz Band                        |                |                                      |                |
|-------------------|---------------------------------------|----------------|--------------------------------------|----------------|
|                   | Coast Stations<br>17243.4-17408.4 kHz |                | Ship Stations<br>16361.4-17526.4 kHz |                |
|                   | Carrier Freq.                         | Assigned Freq. | Carrier Freq.                        | Assigned Freq. |
| 1616              | 17287                                 | 17288.4        | 16405                                | 16406.4        |
| 1617              | 17290                                 | 17291.4        | 16408                                | 16409.4        |
| 1618              | 17293                                 | 17294.4        | 16411                                | 16412.4        |
| 1619              | 17296                                 | 17297.4        | 16414                                | 16415.4        |
| 1620              | 17299                                 | 17300.4        | 16417                                | 16418.4        |
| 1621              | 17302*                                | 17303.4*       | 16420* <sup>9</sup>                  | 16421.4*       |
| 1622              | 17305                                 | 17306.4        | 16423                                | 16424.4        |
| 1623              | 17308                                 | 17309.4        | 16426                                | 16427.4        |
| 1624              | 17311                                 | 17312.4        | 16429                                | 16430.4        |
| 1625              | 17314                                 | 17315.4        | 16432                                | 16433.4        |
| 1626              | 17317                                 | 17318.4        | 16435                                | 16436.4        |
| 1627              | 17320                                 | 17321.4        | 16438                                | 16439.4        |
| 1628              | 17323                                 | 17324.4        | 16441                                | 16442.4        |
| 1629              | 17326                                 | 17327.4        | 16444                                | 16445.4        |
| 1630              | 17329                                 | 17330.4        | 16447                                | 16448.4        |
| 1631              | 17332                                 | 17333.4        | 16450                                | 16451.4        |
| 1632              | 17335                                 | 17336.4        | 16453                                | 16454.4        |
| 1633              | 17338                                 | 17339.4        | 16456                                | 16457.4        |
| 1634              | 17341                                 | 17342.4        | 16459                                | 16460.4        |
| 1635              | 17344                                 | 17345.4        | 16462                                | 16463.4        |
| 1636              | 17347                                 | 17348.4        | 16465                                | 16466.4        |
| 1637              | 17350                                 | 17351.4        | 16468                                | 16469.4        |
| 1638              | 17353                                 | 17354.4        | 16471                                | 16472.4        |
| 1639              | 17356                                 | 17357.4        | 16474                                | 16475.4        |
| 1640              | 17359                                 | 17360.4        | 16477                                | 16478.4        |
| 1641              | 17362                                 | 17363.4        | 16480                                | 16481.4        |
| 1642 <sup>2</sup> | 17365                                 | 17366.4        | 16483                                | 16484.4        |
| 1643 <sup>2</sup> | 17368                                 | 17369.4        | 16486                                | 16487.4        |
| 1644 <sup>2</sup> | 17371                                 | 17372.4        | 16489                                | 16490.4        |
| 1645 <sup>2</sup> | 17374                                 | 17375.4        | 16492                                | 16493.4        |
| 1646 <sup>2</sup> | 17377                                 | 17378.4        | 16495                                | 16495.4        |
| 1647 <sup>2</sup> | 17380                                 | 17381.4        | 16498                                | 16499.4        |
| 1648 <sup>2</sup> | 17383                                 | 17384.4        | 16501                                | 16502.4        |
| 1649 <sup>2</sup> | 17386                                 | 17387.4        | 16504                                | 16505.4        |
| 1650 <sup>2</sup> | 17389                                 | 17390.4        | 16507                                | 16508.4        |
| 1651 <sup>2</sup> | 17392                                 | 17393.4        | 16510                                | 16511.4        |
| 1652 <sup>2</sup> | 17395                                 | 17396.4        | 16513                                | 16514.4        |
| 1653 <sup>2</sup> | 17398                                 | 17399.4        | 16516                                | 16517.4        |
| 1654 <sup>2</sup> | 17401                                 | 17402.4        | 16519                                | 16520.4        |
| 1655 <sup>2</sup> | 17404                                 | 17405.4        | 16522                                | 16523.4        |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>16/17 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>17243.4-17408.4 kHz</b> |                       | <b>Ship Stations<br/>16361.4-17526.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 1656 <sup>2</sup>          | 17407   | 17408.4               | 16525  | 16526.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>18/19 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>19756.4-19798.4 kHz</b> |                       | <b>Ship Stations<br/>18781.4-18823.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 1801 <sup>2</sup>          | 19755   | 19756.4               | 18780  | 18781.4               |
| 1802 <sup>2</sup>          | 19758   | 19759.4               | 18783  | 18784.4               |
| 1803 <sup>2</sup>          | 19761   | 19762.4               | 18786  | 18787.4               |
| 1804 <sup>2</sup>          | 19764   | 19765.4               | 18789  | 18790.4               |
| 1805 <sup>2</sup>          | 19767   | 19768.4               | 18792  | 18793.4               |
| 1806                       | 19770*  | 19771.4*              | 18795*                                       | 18796.4*              |
| 1807 <sup>2</sup>          | 19773   | 19774.4               | 18798  | 18799.4               |
| 1808 <sup>2</sup>          | 19776   | 19777.4               | 18801  | 18802.4               |
| 1809 <sup>2</sup>          | 19779   | 19780.4               | 18804  | 18805.4               |
| 1810 <sup>2</sup>          | 19782   | 19783.4               | 18807  | 18808.4               |
| 1811 <sup>2</sup>          | 19785   | 19786.4               | 18810  | 18811.4               |
| 1812 <sup>2</sup>          | 19788   | 19789.4               | 18813  | 18814.4               |
| 1813 <sup>2</sup>          | 19791   | 19792.4               | 18816  | 18817.4               |
| 1814 <sup>2</sup>          | 19794   | 19795.4               | 18819  | 18820.4               |
| 1815 <sup>2</sup>          | 19797   | 19798.4               | 18822  | 18823.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>22 MHz Band</b>                            |                       |  |                       |
|                            | <b>Coast Stations<br/>22697.4-22853.4 kHz</b> |                       | <b>Ship Stations<br/>22001.4-22157.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 2201                       | 22696   | 22697.4               | 22000  | 22001.4               |
| 2202                       | 22699   | 22700.4               | 22003  | 22004.4               |
| 2203                       | 22702   | 22703.4               | 22006  | 22007.4               |
| 2204                       | 22705   | 22706.4               | 22009  | 22010.4               |
| 2205                       | 22708   | 22709.4               | 22012  | 22013.4               |
| 2206                       | 22711   | 22712.4               | 22015  | 22016.4               |
| 2207                       | 22714   | 22715.4               | 22018  | 22019.4               |
| 2208                       | 22717   | 22718.4               | 22021  | 22022.4               |
| 2209                       | 22720   | 22721.4               | 22024  | 22025.4               |
| 2210                       | 22723   | 22724.4               | 22027  | 22028.4               |
| 2211                       | 22726   | 22727.4               | 22030  | 22031.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>22 MHz Band</b>                            |                       |  |                       |
|                            | <b>Coast Stations<br/>22697.4-22853.4 kHz</b> |                       | <b>Ship Stations<br/>22001.4-22157.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 2212                       | 22729   | 22730.4               | 22033  | 22034.4               |
| 2213                       | 22732   | 22733.4               | 22036  | 22037.4               |
| 2214                       | 22735   | 22736.4               | 22039  | 22040.4               |
| 2215                       | 22738   | 22739.4               | 22042  | 22043.4               |
| 2216                       | 22741   | 22742.4               | 22045  | 22046.4               |
| 2217                       | 22744   | 22745.4               | 22048  | 22049.4               |
| 2218                       | 22747   | 22748.4               | 22051  | 22052.4               |
| 2219                       | 22750   | 22751.4               | 22054  | 22055.4               |
| 2220                       | 22753   | 22754.4               | 22057  | 22058.4               |
| 2221                       | 22756*  | 22757.4*              | 22060*                                       | 22061.4*              |
| 2222                       | 22759   | 22760.4               | 22063  | 22064.4               |
| 2223                       | 22762   | 22763.4               | 22066  | 22067.4               |
| 2224                       | 22765   | 22766.4               | 22069  | 22070.4               |
| 2225                       | 22768   | 22769.4               | 22072  | 22073.4               |
| 2226                       | 22771   | 22772.4               | 22075  | 22076.4               |
| 2227                       | 22774   | 22775.4               | 22078  | 22079.4               |
| 2228                       | 22777   | 22778.4               | 22081  | 22082.4               |
| 2229                       | 22780   | 22781.4               | 22084  | 22085.4               |
| 2230                       | 22783   | 22784.4               | 22087  | 22088.4               |
| 2231                       | 22786   | 22787.4               | 22090  | 22091.4               |
| 2232                       | 22789   | 22790.4               | 22093  | 22094.4               |
| 2233                       | 22792   | 22793.4               | 22096  | 22097.4               |
| 2234                       | 22795   | 22796.4               | 22099  | 22100.4               |
| 2235                       | 22798   | 22799.4               | 22102  | 22103.4               |
| 2236                       | 22801   | 22802.4               | 22105  | 22106.4               |
| 2237                       | 22804   | 22805.4               | 22108  | 22109.4               |
| 2238                       | 22807   | 22808.4               | 22111  | 22112.4               |
| 2239                       | 22810   | 22811.4               | 22114  | 22115.4               |
| 2240                       | 22813   | 22814.4               | 22117  | 22118.4               |
| 2241 <sup>2</sup>          | 22816   | 22817.4               | 22120  | 22121.4               |
| 2242 <sup>2</sup>          | 22819   | 22820.4               | 22123  | 22124.4               |
| 2243 <sup>2</sup>          | 22822   | 22823.4               | 22126  | 22127.4               |
| 2244 <sup>2</sup>          | 22825   | 22826.4               | 22129  | 22130.4               |
| 2245 <sup>2</sup>          | 22828   | 22829.4               | 22132  | 22133.4               |
| 2246 <sup>2</sup>          | 22831   | 22832.4               | 22135  | 22136.4               |
| 2247 <sup>2</sup>          | 22834   | 22835.4               | 22138  | 22139.4               |
| 2248 <sup>2</sup>          | 22837   | 22838.4               | 22141  | 22142.4               |
| 2249 <sup>2</sup>          | 22840   | 22841.4               | 22144  | 22145.4               |
| 2250 <sup>2</sup>          | 22843   | 22844.4               | 22147  | 22148.4               |
| 2251 <sup>2</sup>          | 22846   | 22847.4               | 22150  | 22151.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>22 MHz Band</b>                            |                       |  |                       |
|                            | <b>Coast Stations<br/>22697.4-22853.4 kHz</b> |                       | <b>Ship Stations<br/>22001.4-22157.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 2252 <sup>2</sup>          | 22849   | 22850.4               | 22153  | 22154.4               |
| 2253 <sup>2</sup>          | 22852   | 22853.4               | 22156  | 22157.4               |

| <b>TABLE 1 - Continued</b> |   |                       |  |                       |
|----------------------------|---|-----------------------|--|-----------------------|
| <b>Channel No.</b>         | <b>25/26 MHz Band</b>                         |                       |  |                       |
|                            | <b>Coast Stations<br/>26146.4-26173.4 kHz</b> |                       | <b>Ship Stations<br/>25071.4-25098.4 kHz</b> |                       |
|                            | <b>Carrier Freq.</b>                          | <b>Assigned Freq.</b> | <b>Carrier Freq.</b>                         | <b>Assigned Freq.</b> |
| 2501 <sup>2</sup>          | 26145   | 26146.4               | 25070  | 25071.4               |
| 2502 <sup>2</sup>          | 26148   | 26149.4               | 25073  | 25074.4               |
| 2503 <sup>2</sup>          | 26151   | 26152.4               | 25076  | 25077.4               |
| 2504 <sup>2</sup>          | 26154   | 26155.4               | 25079  | 25080.4               |
| 2505 <sup>2</sup>          | 26157   | 26158.4               | 25082  | 25083.4               |
| 2506                       | 26160   | 26161.4               | 25085  | 25086.4               |
| 2507 <sup>2</sup>          | 26163   | 26164.4               | 25088  | 25089.4               |
| 2508 <sup>2</sup>          | 26166   | 26167.4               | 25091  | 25092.4               |
| 2509 <sup>2</sup>          | 26169   | 26170.4               | 25094  | 25095.4               |
| 2510                       | 26172*  | 26173.4*              | 25097*                                       | 25098.4*              |

1 These coast station frequencies may be paired with a ship station frequency from the table of simplex frequencies for ship and coast stations (see Table 2) or with a frequency from the band 4000-4063 kHz (see Sections 4.3.13 and 7.5.7 of this Manual).

2 Planned for exclusive non-Federal use.

3 These channels may also be used for simplex operation.

4 For the conditions of use of the carrier frequency 4125 kHz, see ITU RR Nos. **52.224**, **52.225** and Appendix **15**.

5 For the conditions of use of the carrier frequency 6215 kHz, see ITU RR Appendices **13** and **15**.

6 These coast station frequencies may be paired with a ship station frequency from the table of simplex frequencies for ship and coast stations (see Table 2) or with a frequency from the band 8100-8195 kHz (see Sections 4.3.13 and 7.5.7 of this Manual).

7 For the conditions of use of the carrier frequency 8291 kHz, see ITU RR Appendix **15**.

8 For the conditions of use of the carrier frequency 12290 kHz, see ITU RR Appendix **15**.

9 For the conditions of use of the carrier frequency 16420 kHz, see ITU RR Appendix **15**.

\* The frequencies followed by an asterisk are calling frequencies (see ITU RR **52.221** and **52.222**).



**Emission: 2K80J3E****Maximum Mean Power:** FC ≤ 10kW MS ≤ 1.5 kW

Class of Station: FC, MS. Coast and ship station frequencies must be paired in accordance with Table 1, except for the following authorized simplex operations.

The carrier frequencies 4417 kHz and 6516 kHz (and in the United States also the carrier frequency 4125 kHz) may be used on a simplex basis provided that the peak envelope power of such stations does not exceed 1 kW. The use of 6516 kHz for this purpose should be limited to daytime operation. (See ITU RR Nos. **52.221.1** and **52.222.2**.)

The carrier frequencies 4125 kHz, 6215 kHz, 8291 kHz, 12290 kHz, and 16420 kHz are also authorized for common use by coast and ship stations for single-sideband radiotelephony on a simplex basis for distress and safety traffic (See ITU RR **52.221.3**).

The carrier frequencies 4125 kHz and 6215 kHz may also be used on a simplex basis for call and reply, provided that the peak envelope power of such stations does not exceed 1 kW. The use of 6215 kHz (carrier frequency) for working purposes is not permitted (See ITU RR Appendix **13**, Part A, Section I, E § 4 (1), RR Nos. **52.221.1** and **52.221.2**).

**TABLE 2: Ship and Coast Telephony (Simplex)***(ITU RR Appendix 17, Part A Sub-Section B)***Assignable Frequencies:**

| 4 MHz  | 6 MHz  | 8 MHz  | 12 MHz  | 16 MHz  | 18 MHz  | 22 MHz  | 25 MHz  |
|--------|--------|--------|---------|---------|---------|---------|---------|
| 4147.4 | 6225.4 | 8295.4 | 12354.4 | 16529.4 | 18826.4 | 22160.4 | 25101.4 |
| 4150.4 | 6228.4 | 8298.4 | 12357.4 | 16532.4 | 18829.4 | 22163.4 | 25104.4 |
|        | 6231.4 |        | 12360.4 | 16535.4 | 18832.4 | 22166.4 | 25107.4 |
|        |        |        | 12363.4 | 16538.4 | 18835.4 | 22169.4 | 25110.4 |
|        |        |        | 12366.4 | 16541.4 | 18838.4 | 22172.4 | 25113.4 |
|        |        |        |         | 16544.4 | 18841.4 | 22175.4 | 25116.4 |
|        |        |        |         | 16547.4 | 18844.4 | 22178.4 | 25119.4 |

**Emission:** 2K80J3E**Power:** pX ≤ 1KW**Class of Station:** FC, MS**Other:** Shared non-priority basis Federal and non-Federal.**TABLE 3: Ship Wideband Telegraphy, Facsimile and Special Transmission Systems****Assignable Frequencies:**

| 4 MHz | 6 MHz | 8 MHz | 12 MHz | 16 MHz | 18 MHz | 22 MHz | 25 MHz |
|-------|-------|-------|--------|--------|--------|--------|--------|
| 4154  | 6235  | 8302  | 12370  | 16551  | 18848  | 22182  | 25123  |
| 4158  | 6239  | 8306  | 12374  | 16555  | 18852  | 22186  | 25127  |
| 4162  | 6243  | 8310  | 12378  | 16559  | 18856  | 22190  | 25131  |
| 4166  | 6247  | 8314  | 12382  | 16563  | 18860  | 22194  | 25135  |
| 4170  | 6251  | 8318  | 12386  | 16567  | 18864  | 22198  | 25139  |
|       | 6255  | 8322  | 12390  | 16571  | 18868  | 22202  | 25143  |
|       | 6259  | 8326  | 12394  | 16575  |        | 22206  | 25147  |
|       |       | 8330  | 12398  | 16579  |        | 22210  | 25151  |
|       |       | 8334  | 12402  | 16583  |        | 22214  | 25155  |

**TABLE 3: Ship Wideband Telegraphy, Facsimile and Special Transmission Systems****Assignable Frequencies:**

|  |  |      |       |       |  |       |       |
|--|--|------|-------|-------|--|-------|-------|
|  |  | 8338 | 12406 | 16587 |  | 22218 | 25159 |
|  |  |      | 12410 | 16591 |  | 22222 |       |
|  |  |      | 12414 | 16595 |  | 22226 |       |
|  |  |      | 12418 | 16599 |  | 22230 |       |
|  |  |      |       | 16603 |  | 22234 |       |
|  |  |      |       | 16607 |  | 22238 |       |
|  |  |      |       | 16611 |  |       |       |
|  |  |      |       | 16615 |  |       |       |

**Emission:** Wide-band telegraphy, facsimile and special transmission systems.

**Power:**  $\leq 1.5$  kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Class of Station:** MS

**TABLE 4: Oceanographic Data Transmission****Assignable Frequencies:**

| 4 MHz  | 6 MHz  | 8 MHz  | 12 MHz  | 16 MHz  | 22 MHz  |
|--------|--------|--------|---------|---------|---------|
| 4063.3 | 6261.3 | 8340.3 | 12420.3 | 16617.3 | 22240.3 |
| 4063.6 | 6261.6 | 8340.6 | 12420.6 | 16617.6 | 22240.6 |
| 4063.9 | 6261.9 | 8340.9 | 12420.9 | 16617.9 | 22240.9 |
| 4064.2 | 6262.2 | 8341.2 | 12421.2 | 16618.2 | 22241.2 |
| 4064.5 | 6262.5 | 8341.5 | 12421.5 | 16618.5 | 22241.5 |
| 4064.8 |        |        |         |         |         |

**Emission:**  $\leq 300$ HF1D or 300HJ2D

**Power:**  $\leq 100$  watts (OD only)

**Class of Station:** OD and OE

See Section 8.2.29 of this Manual for rules governing the assignment of frequencies in the oceanographic data bands.

**TABLE 5: Ship and Coast (Paired) NBDP Telegraph and Data Transmission Systems  
(ITU RR Appendix 17, Part B, Section II)****Assignable Frequencies:**

| Channel | 4 MHz  |        | 6 MHz  |        | 8 MHz  |          |
|---------|--------|--------|--------|--------|--------|----------|
|         | Coast  | Ship   | Coast  | Ship   | Coast  | Ship     |
| 1       | 4210.5 | 4172.5 | 6314.5 | 6263   | 8376.5 | 8376.5   |
| 2       | 4211   | 4173   | 6315   | 6263.5 | 8417   | 8377     |
| 3       | 4211.5 | 4173.5 | 6315.5 | 6264   | 8417.5 | 8277.5.5 |
| 4       | 4212   | 4174   | 6316   | 6264.5 | 8418   | 8378     |
| 5       | 4212.5 | 4174.5 | 6316.5 | 6265   | 8418.5 | 8378.5.5 |
| 6       | 4213   | 4175   | 6317   | 6265.5 | 8419   | 8379     |
| 7       | 4213.5 | 4175.5 | 6317.5 | 6266   | 8419.5 | 8379.5   |

**TABLE 5: Ship and Coast (Paired) NBDP Telegraph and Data Transmission Systems  
(ITU RR Appendix 17, Part B, Section II)**

**Assignable Frequencies:**

| Channel | 4 MHz  |        | 6 MHz  |        | 8 MHz  |        |
|---------|--------|--------|--------|--------|--------|--------|
|         | Coast  | Ship   | Coast  | Ship   | Coast  | Ship   |
| 8       | 4214   | 4176   | 6318   | 6266.5 | 8420   | 8380   |
| 9       | 4214.5 | 4176.5 | 6318.5 | 6267   | 8420.5 | 8380.5 |
| 10      | 4215   | 4177   | 6319   | 6267.5 | 8421   | 8381   |
| 11      | 4177.5 | 4177.5 | 6268   | 6268   | 8421.5 | 8381.5 |
| 12      | 4215.5 | 4178   | 6319.5 | 6268.5 | 8422   | 8382   |
| 13      | 4216   | 4178.5 | 6320   | 6269   | 8422.5 | 8382.5 |
| 14      | 4216.5 | 4179   | 6320.5 | 6269.5 | 8423   | 8423   |
| 15      | 4217   | 4179.5 | 6321   | 6270   | 8423.5 | 8383.5 |
| 16      | 4217.5 | 4180   | 6321.5 | 6270.5 | 8424   | 8384   |
| 17      | 4218   | 4180.5 | 6322   | 6271   | 8424.5 | 8384.5 |
| 18      | 4218.5 | 4181   | 6322.5 | 6271.5 | 8425   | 8395   |
| 19      | 4219   | 4181.5 | 6323   | 6272   | 8425.5 | 8385.5 |
| 20      |        |        | 6323.5 | 6272.5 | 8426   | 8386   |
| 21      |        |        | 6324   | 6273   | 8426.5 | 8386.5 |
| 22      |        |        | 6324.5 | 6273.5 | 8427   | 8387   |
| 23      |        |        | 6325   | 6274   | 8427.5 | 8387.5 |
| 24      |        |        | 6325.5 | 6274.5 | 8428   | 8388   |
| 25      |        |        | 6326   | 6275   | 8428.5 | 8388.5 |
| 26      |        |        | 6326.5 | 6275.5 | 8429   | 8389   |
| 27      |        |        | 6327   | 6281   | 8429.5 | 8389.5 |
| 28      |        |        | 6327.5 | 6281.5 | 8430   | 8390   |
| 29      |        |        | 6328   | 6282   | 8430.5 | 8390.5 |
| 30      |        |        | 6328.5 | 6282.5 | 8431   | 8391   |
| 31      |        |        | 6329   | 6283   | 8431.5 | 8391.5 |
| 32      |        |        | 6329.5 | 6283.5 | 8432   | 8392   |
| 33      |        |        | 6330   | 6284   | 8432.5 | 8392.5 |
| 34      |        |        | 6330.5 | 6284.5 | 8433   | 8393   |
| 35      |        |        |        |        | 8433.5 | 8393.5 |
| 36      |        |        |        |        | 8434   | 8394   |
| 37      |        |        |        |        | 8434.5 | 8394.5 |
| 38      |        |        |        |        | 8435   | 8395   |
| 39      |        |        |        |        | 8435.5 | 8395.5 |
| 40      |        |        |        |        | 8436   | 8396   |

| Channel | 12 MHz  |         |
|---------|---------|---------|
|         | Coast   | Ship    |
| 1       | 12579.5 | 12477   |
| 2       | 12580   | 12477.5 |
| 3       | 12580.5 | 12478   |
| 4       | 12581   | 12478.5 |
| 5       | 12581.5 | 12479   |
| 6       | 12582   | 12479.5 |
| 7       | 12582.5 | 12480   |
| 8       | 12583   | 12480.5 |
| 9       | 12583.5 | 12481   |
| 10      | 12584   | 12481.5 |
| 11      | 12584.5 | 12482   |
| 12      | 12585   | 12482.5 |
| 13      | 12585.5 | 12483   |
| 14      | 12586   | 12483.5 |
| 15      | 12586.5 | 12484   |
| 16      | 12587   | 12484.5 |
| 17      | 12587.5 | 12485   |
| 18      | 12588   | 12485.5 |
| 19      | 12588.5 | 12486   |
| 20      | 12589   | 12486.5 |
| 21      | 12589.5 | 12487   |
| 22      | 12590   | 12487.5 |
| 23      | 12590.5 | 12488   |
| 24      | 12591   | 12488.5 |
| 25      | 12591.5 | 12489   |
| 26      | 12592   | 12489.5 |
| 27      | 12592.5 | 12490   |
| 28      | 12593   | 12490.5 |
| 29      | 12593.5 | 12491   |
| 30      | 12594   | 12491.5 |
| 31      | 12594.5 | 12492   |
| 32      | 12595   | 12492.5 |
| 33      | 12595.5 | 12493   |
| 34      | 12596   | 12493.5 |
| 35      | 12596.5 | 12494   |
| 36      | 12597   | 12494.5 |
| 37      | 12597.5 | 12495   |
| 38      | 12598   | 12495.5 |
| 39      | 12598.5 | 12496   |
| 40      | 12599   | 12496.5 |
| 41      | 12599.5 | 12497   |
| 42      | 12600   | 12497.5 |
| 43      | 12600.5 | 12498   |
| 44      | 12601   | 12498.5 |
| 45      | 12601.5 | 12499   |
| 46      | 12602   | 12499.5 |
| 47      | 12602.5 | 12500   |
| 48      | 12603   | 12500.5 |
| 49      | 12603.5 | 12501   |
| 50      | 12604   | 12501.5 |
| 51      | 12604.5 | 12502   |
| 52      | 12605   | 12502.5 |

|     |         |         |
|-----|---------|---------|
| 53  | 12605.5 | 12503   |
| 54  | 12606   | 12503.5 |
| 55  | 12606.5 | 12504   |
| 56  | 12607   | 12504.5 |
| 57  | 12607.5 | 12505   |
| 58  | 12608   | 12505.5 |
| 59  | 12608.5 | 12506   |
| 60  | 12609   | 12506.5 |
| 61  | 12609.5 | 12507   |
| 62  | 12610   | 12507.5 |
| 63  | 12610.5 | 12508   |
| 64  | 12611   | 12508.5 |
| 65  | 12611.5 | 12509   |
| 66  | 12612   | 12509.5 |
| 67  | 12612.5 | 12510   |
| 68  | 12613   | 12510.5 |
| 69  | 12613.5 | 12511   |
| 70  | 12614   | 12511.5 |
| 71  | 12614.5 | 12512   |
| 72  | 12615   | 12512.5 |
| 73  | 12615.5 | 12513   |
| 74  | 12616   | 12513.5 |
| 75  | 12616.5 | 12514   |
| 76  | 12617   | 12514.5 |
| 77  | 12617.5 | 12515   |
| 78  | 12618   | 12515.5 |
| 79  | 12618.5 | 12516   |
| 80  | 12619   | 12516.5 |
| 81  | 12619.5 | 12517   |
| 82  | 12620   | 12517.5 |
| 83  | 12620.5 | 12518   |
| 84  | 12621   | 12518.5 |
| 85  | 12621.5 | 12519   |
| 86  | 12622   | 12519.5 |
| 87  | 12520   | 12520   |
| 88  | 12622.5 | 12520.5 |
| 89  | 12623   | 12521   |
| 90  | 12623.5 | 12521.5 |
| 91  | 12624   | 12522   |
| 92  | 12624.5 | 12522.5 |
| 93  | 12625   | 12523   |
| 94  | 12625.5 | 12523.5 |
| 95  | 12626   | 12524   |
| 96  | 12626.5 | 12524.5 |
| 97  | 12627   | 12525   |
| 98  | 12627.5 | 12525.5 |
| 99  | 12628   | 12526   |
| 100 | 12628.5 | 12526.5 |
| 101 | 12629   | 12527   |
| 102 | 12629.5 | 12527.5 |
| 103 | 12630   | 12528   |
| 104 | 12630.5 | 12528.5 |
| 105 | 12631   | 12529   |
| 106 | 12631.5 | 12529.5 |
| 107 | 12632   | 12530   |

|     |         |         |
|-----|---------|---------|
| 108 | 12632.5 | 12530.5 |
| 109 | 12633   | 12531   |
| 110 | 12633.5 | 12531.5 |
| 111 | 12634   | 12532   |
| 112 | 12634.5 | 12532.5 |
| 113 | 12635   | 12533   |
| 114 | 12635.5 | 12533.5 |
| 115 | 12636   | 12534   |
| 116 | 12636.5 | 12534.5 |
| 117 | 12637   | 12535   |
| 118 | 12637.5 | 12535.5 |
| 119 | 12638   | 12536   |
| 120 | 12638.5 | 12536.5 |
| 121 | 12639   | 12537   |
| 122 | 12639.5 | 12537.5 |
| 123 | 12640   | 12538   |
| 124 | 12640.5 | 12538.5 |
| 125 | 12641   | 12539   |
| 126 | 12641.5 | 12539.5 |
| 127 | 12642   | 12540   |
| 128 | 12642.5 | 12540.5 |
| 129 | 12643   | 12541   |
| 130 | 12643.5 | 12541.5 |
| 131 | 12644   | 12542   |
| 132 | 12644.5 | 12542.5 |
| 133 | 12645   | 12543   |
| 134 | 12645.5 | 12543.5 |
| 135 | 12646   | 12544   |
| 136 | 12646.5 | 12544.5 |
| 137 | 12647   | 12545   |
| 138 | 12647.5 | 12545.5 |
| 139 | 12648   | 12546   |
| 140 | 12648.5 | 12546.5 |
| 141 | 12649   | 12547   |
| 142 | 12649.5 | 12547.5 |
| 143 | 12650   | 12548   |
| 144 | 12650.5 | 12548.5 |
| 145 | 12651   | 12549   |
| 146 | 12651.5 | 12549.5 |
| 147 | 12652   | 12555   |
| 148 | 12652.5 | 12555.5 |
| 149 | 12653   | 12556   |
| 150 | 12653.5 | 12556.5 |
| 151 | 12654   | 12557   |
| 152 | 12654.5 | 12557.5 |
| 153 | 12655   | 12558   |
| 154 | 12655.5 | 12558.5 |
| 155 | 12656   | 12559   |
| 156 | 12656.5 | 12559.5 |

| Channel | 16 MHz  |         |
|---------|---------|---------|
|         | Coast   | Ship    |
| 1       | 16807   | 16683.5 |
| 2       | 16807.5 | 16684   |
| 3       | 16808   | 16684.5 |
| 4       | 16808.5 | 16685   |
| 5       | 16809   | 16685.5 |
| 6       | 16809.5 | 16686   |
| 7       | 16810   | 16686.5 |
| 8       | 16810.5 | 16687   |
| 9       | 16811   | 16687.5 |
| 10      | 16811.5 | 16688   |
| 11      | 16812   | 16688.5 |
| 12      | 16812.5 | 16689   |
| 13      | 16813   | 16689.5 |
| 14      | 16813.5 | 16690   |
| 15      | 16814   | 16690.5 |
| 16      | 16814.5 | 16691   |
| 17      | 16815   | 16691.5 |
| 18      | 16815.5 | 16692   |
| 19      | 16816   | 16692.5 |
| 20      | 16816.5 | 16693   |
| 21      | 16817   | 16693.5 |
| 22      | 16817.5 | 16694   |
| 23      | 16818   | 16694.5 |
| 24      | 16695   | 16695   |
| 25      | 16818.5 | 16695.5 |
| 26      | 16819   | 16696   |
| 27      | 16819.5 | 16696.5 |
| 28      | 16820   | 16697   |
| 29      | 16820.5 | 16697.5 |
| 30      | 16821   | 16698   |
| 31      | 16821.5 | 16698.5 |
| 32      | 16822   | 16699   |
| 33      | 16822.5 | 16699.5 |
| 34      | 16823   | 16670   |
| 35      | 16823.5 | 16700.5 |
| 36      | 16824   | 16701   |
| 37      | 16824.5 | 16701.5 |
| 38      | 16825   | 16702   |
| 39      | 16825.5 | 16702.5 |
| 40      | 16826   | 16703   |
| 41      | 16826.5 | 16703.5 |
| 42      | 16827   | 16704   |
| 43      | 16827.5 | 16704.5 |
| 44      | 16828   | 16705   |
| 45      | 16828.5 | 16705.5 |
| 46      | 16829   | 16706   |
| 47      | 16829.5 | 16706.5 |
| 48      | 16830   | 16707   |
| 49      | 16830.5 | 16707.5 |
| 50      | 16831   | 16708   |
| 51      | 16831.5 | 16708.5 |
| 52      | 16832   | 16709   |

|     |         |         |
|-----|---------|---------|
| 53  | 16832.5 | 16709.5 |
| 54  | 16833   | 16710   |
| 55  | 16833.5 | 16710.5 |
| 56  | 16834   | 16711   |
| 57  | 16834.5 | 16711.5 |
| 58  | 16835   | 16712   |
| 59  | 16835.5 | 16712.5 |
| 60  | 16836   | 16713   |
| 61  | 16836.5 | 16713.5 |
| 62  | 16837   | 16714   |
| 63  | 16837.5 | 16714.5 |
| 64  | 16838   | 16715   |
| 65  | 16838.5 | 16715.5 |
| 66  | 16839   | 16716   |
| 67  | 16839.5 | 16716.5 |
| 68  | 16840   | 16717   |
| 69  | 16840.5 | 16717.5 |
| 70  | 16841   | 16718   |
| 71  | 16841.5 | 16718.5 |
| 72  | 16842   | 16719   |
| 73  | 16842.5 | 16719.5 |
| 74  | 16843   | 16720   |
| 75  | 16843.5 | 16720.5 |
| 76  | 16844   | 16721   |
| 77  | 16844.5 | 16721.5 |
| 78  | 16845   | 16722   |
| 79  | 16845.5 | 16722.5 |
| 80  | 16846   | 16723   |
| 81  | 16846.4 | 16723.5 |
| 82  | 16847   | 16724   |
| 83  | 16847.5 | 16724.5 |
| 84  | 16848   | 16725   |
| 85  | 16848.5 | 16725.5 |
| 86  | 16849   | 16726   |
| 87  | 16849.5 | 16726.5 |
| 88  | 16850   | 16727   |
| 89  | 16850.5 | 16727.5 |
| 90  | 16851   | 16728   |
| 91  | 16851.5 | 16728.5 |
| 92  | 16852   | 16729   |
| 93  | 16852.5 | 16729.5 |
| 94  | 16853   | 16730   |
| 95  | 16853.5 | 16730.5 |
| 96  | 16854   | 16731   |
| 97  | 16854.5 | 16731.5 |
| 98  | 16855   | 16732   |
| 99  | 16855.5 | 16732.5 |
| 100 | 16856   | 16733   |
| 101 | 16856.5 | 16733.5 |
| 102 | 16857   | 16739   |
| 103 | 16857.5 | 16739.5 |
| 104 | 16858   | 16740   |
| 105 | 16858.5 | 16740.5 |
| 106 | 16859   | 16741   |
| 107 | 16859.5 | 16741.5 |

|     |         |         |
|-----|---------|---------|
| 108 | 16860   | 16742   |
| 109 | 16860.5 | 16742.5 |
| 110 | 16861   | 16743   |
| 111 | 16861.5 | 16743.5 |
| 112 | 16862   | 16744   |
| 113 | 16862.5 | 16744.5 |
| 114 | 16863   | 16745   |
| 115 | 16863.5 | 16745.5 |
| 116 | 16864   | 16746   |
| 117 | 16864.5 | 16746.5 |
| 118 | 16865   | 16747   |
| 119 | 16865.5 | 16747.5 |
| 120 | 16866   | 16748   |
| 121 | 16866.5 | 16748.5 |
| 122 | 16867   | 16749   |
| 123 | 16867.5 | 16749.5 |
| 124 | 16868   | 16750   |
| 125 | 16868.5 | 16750.5 |
| 126 | 16869   | 16751   |
| 127 | 16869.5 | 16751.5 |
| 128 | 16870   | 16752   |
| 129 | 16870.5 | 16752.5 |
| 130 | 16871   | 16753   |
| 131 | 16871.5 | 16753.5 |
| 132 | 16872   | 16754   |
| 133 | 16872.5 | 16754.5 |
| 134 | 16873   | 16755   |
| 135 | 16873.5 | 16755.5 |
| 136 | 16874   | 16756   |
| 137 | 16874.5 | 16756.5 |
| 138 | 16875   | 16757   |
| 139 | 16875.5 | 16757.5 |
| 140 | 16876   | 16758   |
| 141 | 16876.5 | 16758.5 |
| 142 | 16877   | 16759   |
| 143 | 16877.5 | 16759.5 |
| 144 | 16878   | 16760   |
| 145 | 16878.5 | 16760.5 |
| 146 | 16879   | 16761   |
| 147 | 16879.5 | 16761.5 |
| 148 | 16880   | 16762   |
| 149 | 16880.5 | 16762.5 |
| 150 | 16881   | 16763   |
| 151 | 16881.5 | 16763.5 |
| 152 | 16882   | 16764   |
| 153 | 16882.5 | 16764.4 |
| 154 | 16883   | 16765   |
| 155 | 16883.5 | 16765.5 |
| 156 | 16884   | 16766   |
| 157 | 16884.5 | 16766.5 |
| 158 | 16885   | 16767   |
| 159 | 16885.5 | 16767.5 |
| 160 | 16886   | 16768   |
| 161 | 16886.5 | 16768.5 |
| 162 | 16887   | 16769   |

|     |         |         |
|-----|---------|---------|
| 163 | 16887.5 | 16769.5 |
| 164 | 16888   | 16770   |
| 165 | 16888.5 | 16770.5 |
| 166 | 16889   | 16771   |
| 167 | 16889.5 | 16771.5 |
| 168 | 16890   | 16772   |
| 169 | 16890.5 | 16772.5 |
| 170 | 16891   | 16773   |
| 171 | 16891.5 | 16773.5 |
| 172 | 16892   | 16774   |
| 173 | 16892.5 | 16774.5 |
| 174 | 16893   | 16775   |
| 175 | 16893.5 | 16775.5 |
| 176 | 16894   | 16776   |
| 177 | 16894.5 | 16776.5 |
| 178 | 16895   | 16777   |
| 179 | 16895.5 | 16777.5 |
| 180 | 16896   | 16778   |
| 181 | 16896.5 | 16778.5 |
| 182 | 16897   | 16779   |
| 183 | 16897.5 | 16779.5 |
| 184 | 16898   | 16780   |
| 185 | 16898.5 | 16780.5 |
| 186 | 16899   | 16781   |
| 187 | 16899.5 | 16781.5 |
| 188 | 16900   | 16782   |
| 189 | 16900.5 | 16782.5 |
| 190 | 16901   | 16783   |
| 191 | 16901.5 | 16783.5 |
| 192 | 16902   | 16784   |
| 193 | 16902.5 | 16784.5 |

|    |         |         |
|----|---------|---------|
| 20 | 19690.5 | 18880   |
| 21 | 19691   | 18880.5 |
| 22 | 19691.5 | 18881   |
| 23 | 19692   | 18881.5 |
| 24 | 19692.5 | 18882   |
| 25 | 19693   | 18882.5 |
| 26 | 19693.5 | 18883   |
| 27 | 19694   | 18883.5 |
| 28 | 19694.5 | 18884   |
| 29 | 19695   | 18884.5 |
| 30 | 19695.5 | 18885   |
| 31 | 19696   | 18885.5 |
| 32 | 19696.5 | 18886   |
| 33 | 19697   | 18886.5 |
| 34 | 19697.5 | 18887   |
| 35 | 19698   | 18887.5 |
| 36 | 19698.5 | 18888   |
| 37 | 19699   | 18888.5 |
| 38 | 19699.5 | 18889   |
| 39 | 19700   | 18889.5 |
| 40 | 19700.5 | 18890   |
| 41 | 19701   | 18890.5 |
| 42 | 19701.5 | 18891   |
| 43 | 19702   | 18891.5 |
| 44 | 19702.5 | 18892   |
| 45 | 19703   | 18892.5 |

|    |         |         |
|----|---------|---------|
| 26 | 22389   | 22297   |
| 27 | 22389.5 | 22297.5 |
| 28 | 22390   | 22298   |
| 29 | 22390.5 | 22298.5 |
| 30 | 22391   | 22299   |
| 31 | 22391.5 | 22299.5 |
| 32 | 22392   | 22300   |
| 33 | 22392.5 | 22300.5 |
| 34 | 22393   | 22301   |
| 35 | 22393.5 | 22301.5 |
| 36 | 22394   | 22302   |
| 37 | 22394.5 | 22302.5 |
| 38 | 22395   | 22303   |
| 39 | 22395.5 | 22303.5 |
| 40 | 22396   | 22304   |
| 41 | 22396.5 | 22304.5 |
| 42 | 22397   | 22305   |
| 43 | 22397.5 | 22305.5 |
| 44 | 22398   | 22306   |
| 45 | 22398.5 | 22306.5 |
| 46 | 22399   | 22307   |
| 47 | 22399.5 | 22307.5 |
| 48 | 22400   | 22308   |
| 49 | 22400.5 | 22308.5 |
| 50 | 22401   | 22309   |
| 51 | 22401.5 | 22309.5 |
| 52 | 22402   | 22310   |
| 53 | 22402.5 | 22310.5 |
| 54 | 22403   | 22311   |
| 55 | 22403.5 | 22311.5 |
| 56 | 22404   | 22312   |
| 57 | 22404.5 | 22312.5 |
| 58 | 22405   | 22313   |
| 59 | 22405.5 | 22313.5 |
| 60 | 22406   | 22314   |
| 61 | 22406.5 | 22314.5 |
| 62 | 22407   | 22315   |
| 63 | 22407.5 | 22315.5 |
| 64 | 22408   | 22316.5 |
| 65 | 22408.5 | 22316.5 |
| 66 | 22409   | 22317   |
| 67 | 22409.5 | 22317.5 |
| 68 | 22410   | 22318   |
| 69 | 22410.5 | 22318.5 |
| 70 | 22411   | 22319   |
| 71 | 22411.5 | 22319.5 |
| 72 | 22412   | 22320   |
| 73 | 22412.5 | 22320.5 |
| 74 | 22413   | 22321   |
| 75 | 22413.5 | 22321.5 |
| 76 | 22414   | 22322   |
| 77 | 22414.5 | 22322.5 |
| 78 | 22415   | 22323   |
| 79 | 22415.5 | 22323.5 |
| 80 | 22416   | 22324   |

| Channel | 18-19 MHz |         |
|---------|-----------|---------|
|         | Coast     | Ship    |
| 1       | 19681     | 18870.5 |
| 2       | 19681.5   | 18871   |
| 3       | 19682     | 18871.5 |
| 4       | 19682.5   | 18872   |
| 5       | 19683     | 18872.5 |
| 6       | 19683.5   | 18873   |
| 7       | 19684     | 18873.5 |
| 8       | 19684.5   | 18874   |
| 9       | 19685     | 18874.5 |
| 10      | 19685.5   | 18875   |
| 11      | 19686     | 18875.5 |
| 12      | 19686.5   | 18876   |
| 13      | 19687     | 18876.5 |
| 14      | 19687.5   | 18877   |
| 15      | 19688     | 18877.5 |
| 16      | 19688.5   | 18878   |
| 17      | 19689     | 18878.5 |
| 18      | 19689.5   | 18879   |
| 19      | 19690     | 18879.5 |

| Channel | 22 MHz  |         |
|---------|---------|---------|
|         | Coast   | Ship    |
| 1       | 22376.5 | 22284.5 |
| 2       | 22377   | 22285   |
| 3       | 22377.5 | 22285.5 |
| 4       | 22378   | 22286   |
| 5       | 22378.5 | 22286.5 |
| 6       | 22379   | 22287   |
| 7       | 22379.5 | 22287.5 |
| 8       | 22380   | 22288   |
| 9       | 22380.5 | 22288.5 |
| 10      | 22381   | 22289   |
| 11      | 22381.5 | 22289.5 |
| 12      | 22382   | 22290   |
| 13      | 22382.5 | 22290.5 |
| 14      | 22383   | 22291   |
| 15      | 22383.5 | 22291.5 |
| 16      | 22384   | 22292   |
| 17      | 22384.5 | 22292.5 |
| 18      | 22385   | 22293   |
| 19      | 22385.5 | 22293.5 |
| 20      | 22386   | 22294   |
| 21      | 22386.5 | 22294.5 |
| 22      | 22387   | 22295   |
| 23      | 22387.5 | 22295.5 |
| 24      | 22388   | 22296   |
| 25      | 22388.5 | 22296.5 |

|     |         |         |
|-----|---------|---------|
| 81  | 22416.5 | 22324.5 |
| 82  | 22417   | 22325   |
| 83  | 22417.5 | 22325.5 |
| 84  | 22418   | 22326   |
| 85  | 22418.5 | 22326.5 |
| 86  | 22419   | 22327   |
| 87  | 22419.5 | 22327.5 |
| 88  | 22420   | 22328   |
| 89  | 22420.5 | 22328.5 |
| 90  | 22421   | 22329   |
| 91  | 22421.5 | 22329.5 |
| 92  | 22422   | 22330   |
| 93  | 22422.5 | 22330.5 |
| 94  | 22423   | 22331   |
| 95  | 22423.5 | 22331.5 |
| 96  | 22424   | 22332   |
| 97  | 22424.5 | 22332.5 |
| 98  | 22425   | 22333   |
| 99  | 22425.5 | 22333.5 |
| 100 | 22426   | 22334   |
| 101 | 22426.5 | 22334.5 |
| 102 | 22427   | 22335   |
| 103 | 22427.5 | 22335.5 |
| 104 | 22428   | 22336   |
| 105 | 22428.5 | 22336.5 |
| 106 | 22429   | 22337   |
| 107 | 22429.5 | 22337.5 |
| 108 | 22430   | 22338   |
| 109 | 22430.5 | 22338.5 |
| 110 | 22431   | 22339   |
| 111 | 22431.5 | 22339.5 |
| 112 | 22432   | 22340   |
| 113 | 22432.5 | 22340.5 |
| 114 | 22433   | 22341   |
| 115 | 22433.5 | 22341.5 |
| 116 | 22434   | 22342   |
| 117 | 22434.5 | 22342.5 |
| 118 | 22435   | 22343   |
| 119 | 22435.5 | 22343.5 |
| 120 | 22436   | 22344   |
| 121 | 22436.5 | 22344.5 |
| 122 | 22437   | 22345   |
| 123 | 22437.5 | 22345.5 |
| 124 | 22438   | 22346   |
| 125 | 22438.5 | 22346.5 |
| 126 | 22439   | 22347   |
| 127 | 22439.5 | 22347.5 |
| 128 | 22440   | 22348   |
| 129 | 22440.5 | 22348.5 |
| 130 | 22441   | 22349   |
| 131 | 22441.5 | 22349.5 |
| 132 | 22442   | 22350   |
| 133 | 22442.5 | 22350.5 |
| 134 | 22443   | 22351   |
| 135 | 22443.5 | 22351.5 |

| Channel | 25-26 MHz |         |
|---------|-----------|---------|
|         | Coast     | Ship    |
| 1       | 26101     | 25173   |
| 2       | 26101.5   | 25173.5 |
| 3       | 26102     | 25174   |
| 4       | 26102.5   | 25174.5 |
| 5       | 26103     | 25175   |
| 6       | 26103.5   | 25175.5 |
| 7       | 26104     | 25176   |
| 8       | 26104.5   | 25176.5 |
| 9       | 26105     | 25177   |
| 10      | 26105.5   | 25177.5 |
| 11      | 26106     | 25178   |
| 12      | 26106.5   | 25178.5 |
| 13      | 26107     | 25179   |
| 14      | 26107.5   | 25179.5 |
| 15      | 26108     | 25180   |
| 16      | 26108.5   | 25180.5 |
| 17      | 26109     | 25181   |
| 18      | 26109.5   | 25181.5 |
| 19      | 26110     | 25182   |
| 20      | 26110.5   | 25182.5 |
| 21      | 26111     | 25183   |
| 22      | 26111.5   | 25183.5 |
| 23      | 26112     | 25184   |
| 24      | 26112.5   | 25184.5 |
| 25      | 26113     | 25185   |
| 26      | 26113.5   | 25185.5 |
| 27      | 26114     | 25186   |
| 28      | 26114.5   | 25186.5 |
| 29      | 26115     | 25187   |
| 30      | 26115.5   | 25187.5 |
| 31      | 26116     | 25188   |
| 32      | 26116.5   | 25188.5 |
| 33      | 26117     | 25189   |
| 34      | 26117.5   | 25189.5 |
| 35      | 26118     | 25190   |
| 36      | 26118.5   | 25190.5 |
| 37      | 26119     | 25191   |
| 38      | 26119.5   | 25191.5 |
| 39      | 26120     | 25192   |
| 40      | 26120.5   | 25192.5 |

**Emission:** F1B with bandwidth  $\leq 300$  Hz (total frequency shift of 170 Hz) NBDP and data transmission at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK.

**Maximum Mean Power:**

|      |        |       |
|------|--------|-------|
| FC - | 4 MHz  | 5 kW  |
|      | 6 MHz  | 5 kW  |
|      | 8 MHz  | 10 kW |
|      | 10 MHz | 15 kW |
|      | 12 MHz | 15 kW |
|      | 16 MHz | 15 kW |
|      | 18 MHz | 15 kW |
|      | 22 MHz | 15 kW |
|      | 25 MHz | 15 kW |

MS -  $\leq 1.5$  kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Class of Station:** FC, MS

In all bands:

Coast and ship frequencies must be paired on the same channels.

In the 4 and 6 MHz bands:

Channel 11 is used for distress and safety traffic. (See ITU RR Appendix 15.)

In the 4 MHz band:

Channels 16 and 17 are planned for exclusive non-Federal use.

With the exception of channel 11, ship stations may also transmit A1A and A1B Morse telegraphy (working).

In the 6 MHz band:

Channels 25 through 29 are planned for exclusive non-Federal use.

Ship stations may also transmit A1A and A1B Morse telegraphy (working) on channels 30 through 34.

In the 8 MHz band:

Channel 1 is used for distress and safety traffic. (See ITU RR Appendix 15.)

Channels 29 through 34 are planned for exclusive non-Federal use.

Ship stations may also transmit A1A and A1B Morse telegraphy (working) on channels 35 through 40.



In the 12 MHz band:

Channels 58 through 107 are planned for exclusive non-Federal use.

Channel 87 is used for distress and safety traffic. (See ITU RR Appendix 15.)

Ship stations may also transmit A1A and A1B Morse telegraphy (working) on channels 108 through 156.

In the 16 MHz band:

Channel 24 is used for distress and safety traffic. (See ITU RR Appendix 15.)

Channels 71 through 132 are planned for exclusive non-Federal use.

Ship stations may also transmit A1A and A1B Morse telegraphy (working) on channels 133 and through 193.

In the 18-19 MHz bands:

Channels 1 through 22 are planned for exclusive non-Federal use.

In the 22 MHz band:

Channels 68 through 101 are planned for exclusive non-Federal use. Ship stations may also transmit A1A and A1B Morse telegraphy (working) on channels 102 through 135.

In the 25-26 MHz bands:

Channels 1 through 20 are planned for exclusive non-Federal use.

**TABLE 6: Ship (Non-paired) Narrowband Direct-Printing Telegraph and Data Transmission Systems**

*(ITU RR Appendix 17, Part B, Section III)*

**Assignable Frequencies:**

| Channel | 4 MHz  | 6 MHz  | 8 MHz  | 12 MHz  | 16 MHz  | 18 MHz  | 22 MHz  | 25 MHz  |
|---------|--------|--------|--------|---------|---------|---------|---------|---------|
| 1       | 4202.5 | 6300.5 | 8396.5 | 12560   | 16785   | 18893   | 22352   | 25193   |
| 2       | 4203   | 6301   | 8397   | 12560.5 | 16785.5 | 18893.5 | 22352.5 | 25193.5 |
| 3       | 4203.5 | 6301.5 | 8397.5 | 12561   | 16786   | 18894   | 22353   | 25194   |
| 4       | 4204   | 6302   | 8398   | 12561.5 | 16786.5 | 18894.5 | 22353.5 | 25194.5 |
| 5       | 4204.5 | 6302.5 | 8398.5 | 12562   | 16787   | 18895   | 22354   | 25195   |
| 6       | 4205   | 6303   | 8399   | 12562.5 | 16787.5 | 18895.5 | 22354.5 | 25195.5 |
| 7       | 4205.5 | 6303.5 | 8399.5 | 12563   | 16788   | 18896   | 22355   | 25196   |
| 8       | 4206   | 6304   | 8400   | 12563.5 | 16788.5 | 18896.5 | 22355.5 | 25196.5 |
| 9       | 4206.5 | 6304.5 | 8400.5 | 12564   | 16789   | 18897   | 22356   | 25197   |
| 10      | 4207   | 6305   | 8401   | 12564.5 | 16789.5 | 18897.5 | 22356.5 | 25197.5 |
| 11      |        | 6305.5 | 8401.5 | 12565   | 16790   | 18898   | 22357   | 25198   |
| 12      |        | 6306   | 8402   | 12565.5 | 16790.5 |         | 22357.5 | 25198.5 |
| 13      |        | 6306.5 | 8402.5 | 12566   | 16791   |         | 22358   | 25199   |
| 14      |        | 6307   | 8403   | 12566.5 | 16791.5 |         | 22358.5 | 25199.5 |
| 15      |        | 6307.5 | 8403.5 | 12567   | 16792   |         | 22359   | 25200   |
| 16      |        | 6308   | 8404   | 12567.5 | 16792.5 |         | 22359.5 | 25200.5 |
| 17      |        | 6308.5 | 8404.5 | 12568   | 16793   |         | 22360   | 25201   |
| 18      |        | 6309   | 8405   | 12568.5 | 16793.5 |         | 22360.5 | 25201.5 |
| 19      |        | 6309.5 | 8405.5 | 12569   | 16794   |         | 22361   | 25202   |

**TABLE 6: Ship (Non-paired) Narrowband Direct-Printing Telegraph and Data Transmission Systems**

*(ITU RR Appendix 17, Part B, Section III)*

**Assignable Frequencies:**

| Channel | 4 MHz | 6 MHz  | 8 MHz  | 12 MHz  | 16 MHz  | 18 MHz | 22 MHz  | 25 MHz  |
|---------|-------|--------|--------|---------|---------|--------|---------|---------|
| 20      |       | 6310   | 8406   | 12569.5 | 16794.5 |        | 22361.5 | 25202.5 |
| 21      |       | 6310.5 | 8406.5 | 12570   | 16795   |        | 22362   | 25203   |
| 22      |       | 6311   | 8407   | 12570.5 | 16795.5 |        | 22362.5 | 25203.5 |
| 23      |       | 6311.5 | 8407.5 | 12571   | 16796   |        | 22363   | 25204   |
| 24      |       |        | 8408   | 12571.5 | 16796.5 |        | 22363.5 | 25204.5 |
| 25      |       |        | 8408.5 | 12572   | 16797   |        | 22364   | 25205   |
| 26      |       |        | 8409   | 12572.5 | 16797.5 |        | 22364.5 | 25205.5 |
| 27      |       |        | 8409.5 | 12573   | 16798   |        | 22365   | 25206   |
| 28      |       |        | 8410   | 12573.5 | 16798.6 |        | 22365.5 | 25206.5 |
| 29      |       |        | 8410.5 | 12574   | 16799   |        | 22366   | 25207   |
| 30      |       |        | 8411   | 12574.5 | 16799.5 |        | 22366.5 | 25207.5 |
| 31      |       |        | 8411.5 | 12575   | 16800   |        | 22367   | 25208   |
| 32      |       |        | 8412   | 12575.5 | 16800.5 |        | 22367.5 |         |
| 33      |       |        | 8412.5 | 12576   | 16801   |        | 22368   |         |
| 34      |       |        | 8413   | 12576.5 | 16801.5 |        | 22368.5 |         |
| 35      |       |        | 8413.5 |         | 16802   |        | 22369   |         |
| 36      |       |        | 8414   |         | 16802.5 |        | 22369.5 |         |
| 37      |       |        |        |         | 16803   |        | 22370   |         |
| 38      |       |        |        |         | 16803.5 |        | 22370.5 |         |
| 39      |       |        |        |         | 16804   |        | 22371   |         |
| 40      |       |        |        |         |         |        | 22371.5 |         |
| 41      |       |        |        |         |         |        | 22372   |         |
| 42      |       |        |        |         |         |        | 22372.5 |         |
| 43      |       |        |        |         |         |        | 22373   |         |
| 44      |       |        |        |         |         |        | 22373.5 |         |
| 45      |       |        |        |         |         |        | 22374   |         |

**Use:** These frequencies are also assignable to ship stations for A1A and A1B Morse telegraphy (working).

**Emission:** F1B with  $BW \leq 300$  Hz (total frequency shift of 170 Hz or less) NBDP and data transmission systems shall not exceed 100 bauds for FSK and 200 bauds for PSK.

**Power:**  $\leq 1.5$  kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Class of Station:** MS

**TABLE 7: Ship Calling A1 Morse Telegraphy  
(ITU RR Appendix 17, Part B, Section IV)**

**Assignable Frequencies:**

| <b>4 MHz</b> | <b>6 MHz</b> | <b>8 MHz</b> | <b>12 MHz</b> | <b>16 MHz</b> | <b>22 MHz</b> | <b>25 MHz</b> |
|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 4181.8       | 6275.8       | 8365.8       | 12549.8       | 16733.8       | 22279.3       | 25171.3       |
| 4181.9       | 6275.9       | 8365.9       | 12549.9       | 16733.9       | 22279.4       | 25171.4       |
| 4182.0       | 6276.0       | 8366.0       | 12550.0       | 16734.0       | 22279.5       | 25171.5       |
| 4182.1       | 6276.1       | 8366.1       | 12550.1       | 16734.1       | 22279.6       | 25171.6       |
| 4182.2       | 6276.2       | 8366.2       | 12550.2       | 16734.2       | 22279.7       | 25171.7       |
| 4182.3       | 6276.3       | 8366.3       | 12550.3       | 16734.3       | 22279.8       | 25171.8       |
| 4182.4       | 6276.4       | 8366.4       | 12550.4       | 16734.4       | 22279.9       | 25171.9       |
| 4182.5       | 6276.5       | 8366.5       | 12550.5       | 16734.5       | 22280.0       | 25172.0       |
| 4182.6       | 6276.6       | 8366.6       | 12550.6       | 16734.6       | 22280.1       | 25172.1       |
| 4182.7       | 6276.7       | 8366.7       | 12550.7       | 16734.7       | 22280.2       | 25172.2       |
| 4182.8       | 6276.8       | 8366.8       | 12550.8       | 16734.8       | 22280.3       | 25172.3       |
| 4182.9       | 6276.9       | 8366.9       | 12550.9       | 16734.9       | 22280.4       | 25172.4       |
| 4183.0       | 6277.0       | 8367.0       | 12551.0       | 16735.0       | 22280.5       | 25172.5       |
| 4183.1       | 6277.1       | 8367.1       | 12551.1       | 16735.1       | 22280.6       | 25172.6       |
| 4183.2       | 6277.2       | 8367.2       | 12551.2       | 16735.2       | 22280.7       | 25172.7       |
| 4183.3       | 6277.3       | 8367.3       | 12551.3       | 16735.3       | 22280.8       |               |
| 4183.4       | 6277.4       | 8367.4       | 12551.4       | 16735.4       | 22280.9       |               |
| 4183.5       | 6277.5       | 8367.5       | 12551.5       | 16735.5       | 22281.0       |               |
| 4183.6       | 6277.6       | 8367.6       | 12551.6       | 16735.6       | 22281.1       |               |
| 4183.7       | 6277.7       | 8367.7       | 12551.7       | 16735.7       | 22281.2       |               |
| 4183.8       | 6277.8       | 8367.8       | 12551.8       | 16735.8       | 22281.3       |               |
| 4183.9       | 6277.9       | 8367.9       | 12551.9       | 16735.9       | 22281.4       |               |
| 4184.0       | 6278.0       | 8368.0       | 12552.0       | 16736.0       | 22281.5       |               |
| 4184.1       | 6278.1       | 8368.1       | 12552.1       | 16736.1       | 22281.6       |               |
| 4184.2       | 6278.2       | 8368.2       | 12552.2       | 16736.2       | 22281.7       |               |
| 4184.3       | 6278.3       | 8368.3       | 12552.3       | 16736.3       | 22281.8       |               |
| 4184.4       | 6278.4       | 8368.4       | 12552.4       | 16736.4       | 22281.9       |               |
| 4184.5       | 6278.5       | 8368.5       | 12552.5       | 16736.5       | 22282.0       |               |
| 4184.6       | 6278.6       | 8368.6       | 12552.6       | 16736.6       | 22282.1       |               |
| 4184.7       | 6278.7       | 8368.7       | 12552.7       | 16736.7       | 22282.2       |               |
| 4184.8       | 6278.8       | 8368.8       | 12552.8       | 16736.8       | 22282.3       |               |
| 4184.9       | 6278.9       | 8368.9       | 12552.9       | 16736.9       | 22282.4       |               |
| 4185.0       | 6279.0       | 8369.0       | 12553.0       | 16737.0       | 22282.5       |               |
| 4185.1       | 6279.1       | 8369.1       | 12553.1       | 16737.1       | 22282.6       |               |
| 4185.2       | 6279.2       | 8369.2       | 12553.2       | 16737.2       | 22282.7       |               |
| 4185.3       | 6279.3       | 8369.3       | 12553.3       | 16737.3       | 22282.8       |               |
| 4185.4       | 6279.4       | 8369.4       | 12553.4       | 16737.4       | 22282.9       |               |
| 4185.5       | 6279.5       | 8369.5       | 12553.5       | 16737.5       | 22283.0       |               |
| 4185.6       | 6279.6       | 8369.6       | 12553.6       | 16737.6       | 22283.1       |               |
| 4185.7       | 6279.7       | 8369.7       | 12553.7       | 16737.7       | 22283.2       |               |
| 4185.8       | 6279.8       | 8369.8       | 12553.8       | 16737.8       | 22283.3       |               |
| 4185.9       | 6279.9       | 8369.9       | 12553.9       | 16737.9       | 22283.4       |               |
| 4186.0       | 6280.0       | 8370.0       | 12554.0       | 16738.0       | 22283.5       |               |
| 4186.1       | 6280.1       | 8370.1       | 12554.1       | 16738.1       | 22283.6       |               |
| 4186.2       | 6280.2       | 8370.2       | 12554.2       | 16738.2       | 22283.7       |               |

**TABLE 7: Ship Calling A1 Morse Telegraphy  
(ITU RR Appendix 17, Part B, Section IV)**

| Assignable Frequencies: |        |        |         |         |         |        |
|-------------------------|--------|--------|---------|---------|---------|--------|
| 4 MHz                   | 6 MHz  | 8 MHz  | 12 MHz  | 16 MHz  | 22 MHz  | 25 MHz |
| 4186.3                  | 6280.3 | 8370.3 | 12554.3 | 16738.3 | 22283.8 |        |
| 4186.4                  | 6280.4 | 8370.4 | 12554.4 | 16738.4 | 22283.9 |        |
| 4186.5                  | 6280.5 | 8370.5 | 12554.5 | 16738.5 | 22284.0 |        |
| 4186.6                  | 6280.6 | 8370.6 | 12554.6 | 16738.6 | 22284.1 |        |
| 4186.7                  | 6280.7 | 8370.7 | 12554.7 | 16738.7 | 22284.2 |        |

Frequencies ending in .0 or .5 are the center frequency of each channel listed in ITU RR Appendix 17 and should be assigned only to ship stations solely equipped with crystal controlled transmitters using harmonically related oscillators. Only the common channels in the 4, 6, 8, 12, and 16 MHz band are harmonically related. As far as possible, assignments on the two frequencies at +/- 100 Hz from the harmonically related common channel should be avoided.

**Power:**  $\leq 1.5$  kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Emission:** 100HA1A

**Class of Station:** MS

**Usage:** See ITU RR Resolution 312

**TABLE 8: Digital Selective Calling**

| Assignable Frequencies:   |         |         |          |          |         |         |         |
|---------------------------|---------|---------|----------|----------|---------|---------|---------|
| Coast Station Frequencies |         |         |          |          |         |         |         |
| 4219.5                    | 6331.0  | 8436.6  | 12657.0  | 16903.0  | 19703.5 | 22444.0 | 26121.0 |
| 4220.0                    | 6331.5  | 8437.0  | 12657.5  | 16903.5  | 19704.0 | 22444.5 | 26121.5 |
| 4220.5                    | 6332.0  | 8437.5  | 12658.0  | 16904.0  | 19704.5 | 22445.0 | 26122.0 |
| Ship Station Frequencies  |         |         |          |          |         |         |         |
| 4207.5*                   | 6312.0* | 8414.5* | 12577.0* | 16804.5* | 18898.5 | 22374.5 | 25208.5 |
| 4208.0                    | 6312.5  | 8415.0  | 12577.5  | 16805.0  | 18999.0 | 22375.0 | 25209.0 |
| 4208.5                    | 6313.0  | 8415.5  | 12578.0  | 16805.5  | 18999.5 | 22375.5 | 25209.5 |
| 4209.0                    | 6313.5  | 8416.0  | 12578.5  | 16806.0  |         |         |         |

\* Used exclusively for distress and safety selective calling. For the use of these frequencies by ship and coast stations for distress and safety purposes, see ITU RR Article 31 and Appendix 15.

**Emission (Ship and Coast Stations):** F1B

**Ship Station:**

**Class of Station:** MS

**Power:** 1.5 kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Coast Station:****Class of Station:** FC**Maximum Mean Power:**

|        |       |        |       |
|--------|-------|--------|-------|
| 4 MHz  | 5 kW  | 16 MHz | 15 kW |
| 6 MHz  | 5 kW  | 18 MHz | 15 kW |
| 8 MHz  | 10 kW | 22 MHz | 15 kW |
| 12 MHz | 15 kW | 25 MHz | 15 kW |

**TABLE 9: Ship Working A1A, Morse Telegraphy****(ITU RR Appendix 17, Part B, Section V)****Assignable Frequencies:**

| <b>Channel</b> | <b>4 MHz</b> | <b>6 MHz</b> | <b>8 MHz</b> | <b>12 MHz</b> | <b>16 MHz</b> | <b>22 MHz</b> | <b>25 MHz</b> |
|----------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 1              | 4187         | 6285         | 8342         | 12422         | 16619         | 22242         | 25161.5       |
| 2              | 4187.5       | 6285.5       | 8342.5       | 12422.5       | 16619.5       | 22242.5       | 25162         |
| 3              | 4188         | 6286         | 8343         | 12423         | 16620         | 22243         | 25162.5       |
| 4              | 4188.5       | 6286.5       | 8343.5       | 12423.5       | 16620.5       | 22243.5       | 25163         |
| 5              | 4189         | 6287         | 8344         | 12424         | 16621         | 22244         | 25163.5       |
| 6              | 4189.5       | 6287.5       | 8344.5       | 12424.5       | 16621.5       | 22244.5       | 25164         |
| 7              | 4190         | 6288         | 8345         | 12425         | 16622         | 22245         | 25164.5       |
| 8              | 4190.5       | 6288.5       | 8345.5       | 12425.5       | 16622.5       | 22245.5       | 25165         |
| 9              | 4191         | 6289         | 8346         | 12426         | 16623         | 22246         | 25165.5       |
| 10             | 4191.5       | 6289.5       | 8346.5       | 12426.5       | 16623.5       | 22246.5       | 25166         |
| 11             | 4192         | 6290         | 8347         | 12427         | 16624         | 22247         | 25166.5       |
| 12             | 4192.5       | 6290.5       | 8347.5       | 12427.5       | 16624.5       | 22247.5       | 25167         |
| 13             | 4193         | 6291         | 8348         | 12428         | 16625         | 22248         | 25167.5       |
| 14             | 4193.5       | 6291.5       | 8348.5       | 12428.5       | 16625.5       | 22248.5       | 25168         |
| 15             | 4194         | 6292         | 8349         | 12429         | 16626         | 22249         | 25168.5       |
| 16             | 4194.5       | 6292.5       | 8349.5       | 12429.5       | 16626.5       | 22249.5       | 25169         |
| 17             | 4195         | 6293         | 8350         | 12430         | 16627         | 22250         | 25169.5       |
| 18             | 4195.5       | 6293.5       | 8350.5       | 12430.5       | 16627.5       | 22250.5       | 25170         |
| 19             | 4196         | 6294         | 8351         | 12431         | 16628         | 22251         | 25170.5       |
| 20             | 4196.5       | 6294.5       | 8351.5       | 12431.5       | 16628.5       | 22251.5       | 25171         |
| 21             | 4197         | 6295         | 8352         | 12432         | 16629         | 22252         |               |
| 22             | 4197.5       | 6295.5       | 8352.5       | 12432.5       | 16629.5       | 22252.5       |               |
| 23             | 4198         | 6296         | 8353         | 12433         | 16630         | 22253         |               |
| 24             | 4198.5       | 6296.5       | 8353.5       | 12433.5       | 16630.5       | 22253.5       |               |
| 25             | 4199         | 6297         | 8354         | 12434         | 16631         | 22254         |               |
| 26             | 4199.5       | 6297.5       | 8354.5       | 12434.5       | 16631.5       | 22254.5       |               |
| 27             | 4200         | 6298         | 8355         | 12435         | 16632         | 22255         |               |
| 28             | 4200.5       | 6298.5       | 8355.5       | 12435.5       | 16632.5       | 22255.5       |               |
| 29             | 4201         | 6299         | 8356         | 12436         | 16633         | 22256         |               |
| 30             | 4201.5       | 6299.5       | 8356.5       | 12436.5       | 16633.5       | 22256.5       |               |
| 31             | 4202         | 6300         | 8357         | 12437         | 16634         | 22257         |               |
| 32             |              |              | 8357.5       | 12437.5       | 16634.5       | 22257.5       |               |
| 33             |              |              | 8358         | 12438         | 16635         | 22258         |               |
| 34             |              |              | 8358.5       | 12438.5       | 16635.5       | 22258.5       |               |
| 35             |              |              | 8359         | 12439         | 16636         | 22259         |               |
| 36             |              |              | 8359.5       | 12439.5       | 16636.5       | 22259.5       |               |
| 37             |              |              | 8360         | 12440         | 16637         | 22260         |               |
| 38             |              |              | 8360.5       | 12440.5       | 16637.5       | 22260.5       |               |
| 39             |              |              | 8361         | 12441         | 16638         | 22261         |               |

**TABLE 9: Ship Working A1A, Morse Telegraphy  
(ITU RR Appendix 17, Part B, Section V)**

**Assignable Frequencies:**

| <b>Channel</b> | <b>4 MHz</b> | <b>6 MHz</b> | <b>8 MHz</b> | <b>12 MHz</b> | <b>16 MHz</b> | <b>22 MHz</b> | <b>25 MHz</b> |
|----------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 40             |              |              | 8361.5       | 12441.5       | 16638.5       | 22261.5       |               |
| 41             |              |              | 8362         | 12442         | 16639         | 22262         |               |
| 42             |              |              | 8362.5       | 12442.5       | 16639.5       | 22262.5       |               |
| 43             |              |              | 8363         | 12443         | 16640         | 22263         |               |
| 44             |              |              | 8363.5       | 12443.5       | 16640.5       | 22263.5       |               |
| 45             |              |              | 8364         | 12444         | 16641         | 22264         |               |
| 46             |              |              | 8364.5       | 12444.5       | 16641.5       | 22264.5       |               |
| 47             |              |              | 8365         | 12445         | 16642         | 22265         |               |
| 48             |              |              | 8365.5       | 12445.5       | 16642.5       | 22265.5       |               |
| 49             |              |              | 8371         | 12446         | 16643         | 22266         |               |
| 50             |              |              | 8371.5       | 12446.5       | 16643.5       | 22266.5       |               |
| 51             |              |              | 8372         | 12447         | 16644         | 22267         |               |
| 52             |              |              | 8372.5       | 12447.5       | 16644.5       | 22267.5       |               |
| 53             |              |              | 8373         | 12448         | 16645         | 22268         |               |
| 54             |              |              | 8373.5       | 12448.5       | 16645.5       | 22268.5       |               |
| 55             |              |              | 8374         | 12449         | 16646         | 22269         |               |
| 56             |              |              | 8374.5       | 12449.5       | 16646.5       | 22269.5       |               |
| 57             |              |              | 8375         | 12450         | 16647         | 22270         |               |
| 58             |              |              | 8375.5       | 12450.5       | 16647.5       | 22270.5       |               |
| 59             |              |              | 8376         | 12451         | 16648         | 22271         |               |
| 60             |              |              |              | 12451.5       | 16648.5       | 22271.5       |               |
| 61             |              |              |              | 12452         | 16649         | 22272         |               |
| 62             |              |              |              | 12452.5       | 16649.5       | 22272.5       |               |
| 63             |              |              |              | 12453         | 16650         | 22273         |               |
| 64             |              |              |              | 12453.5       | 16650.5       | 22273.5       |               |
| 65             |              |              |              | 12454         | 16651         | 22274         |               |
| 66             |              |              |              | 12454.5       | 16651.5       | 22274.5       |               |
| 67             |              |              |              | 12455         | 16652         | 22275         |               |
| 68             |              |              |              | 12455.5       | 16652.5       | 22275.5       |               |
| 69             |              |              |              | 12456         | 16653         | 22276         |               |
| 70             |              |              |              | 12456.5       | 16653.5       | 22276.5       |               |
| 71             |              |              |              | 12457         | 16654         | 22277         |               |
| 72             |              |              |              | 12457.5       | 16654.5       | 22277.5       |               |
| 73             |              |              |              | 12458         | 16655         | 22278         |               |
| 74             |              |              |              | 12458.5       | 16655.5       | 22278.5       |               |
| 75             |              |              |              | 12459         | 16656         | 22279         |               |
| 76             |              |              |              | 12459.5       | 16656.5       |               |               |
| 77             |              |              |              | 12460         | 16657         |               |               |
| 78             |              |              |              | 12460.5       | 16657.5       |               |               |
| 79             |              |              |              | 12461         | 16658         |               |               |
| 80             |              |              |              | 12461.5       | 16658.5       |               |               |
| 81             |              |              |              | 12462         | 16659         |               |               |
| 82             |              |              |              | 12462.5       | 16659.5       |               |               |
| 83             |              |              |              | 12463         | 16660         |               |               |
| 84             |              |              |              | 12463.5       | 16660.5       |               |               |
| 85             |              |              |              | 12464         | 16661         |               |               |
| 86             |              |              |              | 12464.5       | 16661.5       |               |               |
| 87             |              |              |              | 12465         | 16662         |               |               |
| 88             |              |              |              | 12465.5       | 16662.5       |               |               |
| 89             |              |              |              | 12466         | 16663         |               |               |

**TABLE 9: Ship Working A1A, Morse Telegraphy**  
**(ITU RR Appendix 17, Part B, Section V)**

**Assignable Frequencies:**

| <b>Channel</b> | <b>4 MHz</b> | <b>6 MHz</b> | <b>8 MHz</b> | <b>12 MHz</b> | <b>16 MHz</b> | <b>22 MHz</b> | <b>25 MHz</b> |
|----------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 90             |              |              |              | 12466.5       | 16663.5       |               |               |
| 91             |              |              |              | 12467         | 16664         |               |               |
| 92             |              |              |              | 12467.5       | 16664.5       |               |               |
| 93             |              |              |              | 12468         | 16665         |               |               |
| 94             |              |              |              | 12468.5       | 16665.5       |               |               |
| 95             |              |              |              | 12469         | 16666         |               |               |
| 96             |              |              |              | 12469.5       | 16666.5       |               |               |
| 97             |              |              |              | 12470         | 16667         |               |               |
| 98             |              |              |              | 12470.5       | 16667.5       |               |               |
| 99             |              |              |              | 12471         | 16668         |               |               |
| 100            |              |              |              | 12471.5       | 16668.5       |               |               |
| 101            |              |              |              | 12472         | 16669         |               |               |
| 102            |              |              |              | 12472.5       | 16669.5       |               |               |
| 103            |              |              |              | 12473         | 16670         |               |               |
| 104            |              |              |              | 12473.5       | 16670.5       |               |               |
| 105            |              |              |              | 12474         | 16671         |               |               |
| 106            |              |              |              | 12474.5       | 16671.5       |               |               |
| 107            |              |              |              | 12475         | 16672         |               |               |
| 108            |              |              |              | 12475.5       | 16672.5       |               |               |
| 109            |              |              |              | 12476         | 16673         |               |               |
| 110            |              |              |              |               | 16673.5       |               |               |
| 111            |              |              |              |               | 16674         |               |               |
| 112            |              |              |              |               | 16674.5       |               |               |
| 113            |              |              |              |               | 16675         |               |               |
| 114            |              |              |              |               | 16675.5       |               |               |
| 115            |              |              |              |               | 16676         |               |               |
| 116            |              |              |              |               | 16676.5       |               |               |
| 117            |              |              |              |               | 16677         |               |               |
| 118            |              |              |              |               | 16677.5       |               |               |
| 119            |              |              |              |               | 16678         |               |               |
| 120            |              |              |              |               | 16678.5       |               |               |
| 121            |              |              |              |               | 16679         |               |               |
| 122            |              |              |              |               | 16679.5       |               |               |
| 123            |              |              |              |               | 16680         |               |               |
| 124            |              |              |              |               | 16680.5       |               |               |
| 125            |              |              |              |               | 16681         |               |               |
| 126            |              |              |              |               | 16681.5       |               |               |
| 127            |              |              |              |               | 16682         |               |               |
| 128            |              |              |              |               | 16682.5       |               |               |
| 129            |              |              |              |               | 16683         |               |               |

**Power:**  $\leq 1.5$  kW (As set forth in Section 8.2.29, this power reflects current practice and is not intended to serve as a power limit.)

**Class of Service:** MS

**Other Assignable Frequencies:**

Additionally frequencies interleaved between the assignable frequencies, above, may be assigned in multiples of 100 Hz. Such assignments shall be uniformly distributed.

See Notes to Tables 5 and 6 for information on which NBDP channels may be used for Morse telegraphy.

**TABLE 10: Coast Wideband Telegraphy, Facsimile and Special Transmission Systems****Frequency Bands:**

|                 |                 |
|-----------------|-----------------|
| 4221 - 4351     | 16904.5 - 17242 |
| 6332.5 - 6501   | 22445.5 - 22696 |
| 8438 - 8707     | 26122.5 - 26145 |
| 12658.5 - 13077 |                 |

**Frequency Plan:** None

**Emission:** Any telegraphy.

**Power:**

| Band   | A1A(pX) | F1B(pY) | Multichannel                            | Other |
|--------|---------|---------|---|-------|
| 4 MHz  | 10      | 5       | 2.5kW (mean)<br>per 500 Hz<br>Bandwidth | 5     |
| 6 MHz  | 10      | 5       |   | 5     |
| 8 MHz  | 20      | 10      |   | 10    |
| 12 MHz | 30      | 15      |   | 15    |
| 16 MHz | 30      | 15      |   | 15    |
| 18 MHz | 30      | 15      |   | 15    |
| 22 MHz | 30      | 15      |   | 15    |
| 25 MHz | 30      | 15      |   | 15    |

**Class of Station:** FC

**Other:** MS stations are authorized to communicate with Coast stations on channels in these bands in accordance with the provisions of ITU RR 4.18.

**TABLE 11: Maritime Safety Information (MSI)**

MSI Coast Station Assignable Frequencies (all kHz):

|         |         |
|---------|---------|
| 4210.0  | 16806.5 |
| 6314.0  | 19680.5 |
| 8416.5  | 22376.5 |
| 12579.0 | 26100.5 |



**Frequency Plan:** None

**Emission:**

NBDP and data transmission at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK.

F1B with  $BW \leq 300$  Hz (total frequency shift of 170 Hz)

**Maximum Mean Power:**

|    |        |       |
|----|--------|-------|
| FC | 4 MHz  | 5 kW  |
|    | 6 MHz  | 5 kW  |
|    | 8 MHz  | 10 kW |
|    | 12 MHz | 15 kW |
|    | 16 MHz | 15 kW |
|    | 18 MHz | 15 kW |
|    | 22 MHz | 15 kW |
|    | 25 MHz | 15 kW |

MS - Receive only.

**Class of Station:** FC

**Other:** These are the exclusive international frequencies for the transmission of MSI (see ITU RR 33.48).

**(Last Page in Annex H)**