

Frequency Spectrum Allocations

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|---|---|---|---|
| <u>Amateur CW Bands</u> | <u>Amateur Phone bands</u> | <u>Aircraft and Airlines.</u> | |
| <u>CB Radio</u> | <u>Cordless Phone</u> | <u>Cellular Phone</u> | <u>Cellular Systems Design</u> |
| <u>Fast Food Services</u> | <u>Fixed Location Radio</u> | <u>Government Frequencies</u> | <u>Maritime and Marine</u> |
| <u>Shortwave by Meter Band.</u> | <u>Time / MUF</u> | <u>World Time Zones</u> | <u>WEFAX FREQ.</u> |
| <u>AM - FM Below 30 MHz</u> | <u>900 MHz Band</u> | <u>806-960 MHz Band</u> | <u>800-1300 MHz Frequencies</u> |

CB Radio Channels

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1 | 26.965 | 11 | 27.085 | 21 | 27.215 | 31 | 27.315 |
| 2 | 26.975 | 12 | 27.105 | 22 | 27.225 | 32 | 27.325 |
| 3 | 26.985 | 13 | 27.115 | 23 | 27.255 | 33 | 27.335 |
| 4 | 27.005 | 14 | 27.125 | 24 | 27.235 | 34 | 27.345 |
| 5 | 27.015 | 15 | 27.135 | 25 | 27.245 | 35 | 27.355 |
| 6 | 27.025 | 16 | 27.155 | 26 | 27.265 | 36 | 27.365 |
| 7 | 27.035 | 17 | 27.165 | 27 | 27.275 | 37 | 27.375 |
| 8 | 27.055 | 18 | 27.175 | 28 | 27.285 | 38 | 27.385 |
| 9 | 27.065 | 19 | 27.185 | 29 | 27.295 | 39 | 27.395 |
| 10 | 27.075 | 20 | 27.205 | 30 | 27.305 | 40 | 27.405 |

Shortwave Frequencies by Meter Band

SHORTWAVE BROADCAST BANDS

UNITED STATES TIME ZONES

| Frequency Range | Meter Band | GMT | PST | MST | CST | EST |
|-----------------|------------|------|-------|-------|-------|-------|
| 2300 - 2495 | 120 Meters | | | | | |
| 3200 - 3400 | 90 Meters | | | | | |
| 3900 - 4000 | 75 Meters | | | | | |
| 4750 - 5060 | 60 Meters | 0000 | 4 PM | 5 PM | 6 PM | 7 PM |
| 5850 - 6200 | 49 Meters | 0100 | 5 PM | 6 PM | 7 PM | 8 PM |
| 7100 - 7350 | 41 Meters | 0200 | 6 PM | 7 PM | 8 PM | 9 PM |
| 9400 - 9900 | 31 Meters | 0300 | 7 PM | 8 PM | 9 PM | 10 PM |
| 11600 - 12050 | 25 Meters | 0400 | 8 PM | 9 PM | 10 PM | 11 PM |
| 13570 - 13800 | 22 Meters | 0500 | 9 PM | 10 PM | 11 PM | 12 AM |
| 15100 - 15800 | 19 Meters | 0600 | 10 PM | 11 PM | 12 AM | 1 AM |
| 17480 - 17900 | 16 Meters | 0700 | 11 PM | 12 AM | 1 AM | 2 AM |
| 18900 - 19020 | 15 Meters | 0800 | 12 AM | 1 AM | 2 AM | 3 AM |
| 21450 - 21850 | 13 Meters | 0900 | 1 AM | 2 AM | 3 AM | 4 AM |

| | | | | | | | |
|---------------------|------------|------|-------|-------|-------|-------|-------|
| 25600 - 26100 | 11 Meters | 1000 | 2 AM | 3 AM | 4 AM | 5 AM | 6 AM |
| | | 1100 | 3 AM | 4 AM | 5 AM | 6 AM | 7 AM |
| | | 1200 | 4 AM | 5 AM | 6 AM | 7 AM | 8 AM |
| AMATEUR PHONE BANDS | | 1300 | 5 AM | 6 AM | 7 AM | 8 AM | 9 AM |
| | | 1400 | 6 AM | 7 AM | 8 AM | 9 AM | 10 AM |
| 1800 - 2000 | 160 Meters | 1500 | 7 AM | 8 AM | 9 AM | 10 AM | 11 AM |
| 3750 - 4000 | 75 Meters | 1600 | 8 AM | 9 AM | 10 AM | 11 AM | 12 PM |
| 7150 - 7300 | 40 Meters | 1700 | 9 AM | 10 AM | 11 AM | 12 PM | 1 PM |
| 14150 - 14350 | 20 Meters | 1800 | 10 AM | 11 AM | 12 PM | 1 PM | 2 PM |
| 18110 - 18168 | 17 Meters | 1900 | 11 AM | 12 PM | 1 PM | 2 PM | 3 PM |
| 21200 - 21450 | 15 Meters | 2000 | 12 PM | 1 PM | 2 PM | 3 PM | 4 PM |
| 24930 - 24990 | 12 Meters | 2100 | 1 PM | 2 PM | 3 PM | 4 PM | 5 PM |
| 28300 - 29700 | 10 Meters | 2200 | 2 PM | 3 PM | 4 PM | 5 PM | 6 PM |
| | | 2300 | 3 PM | 4 PM | 5 PM | 6 PM | 7 PM |

Amateur (HAM Radio) CW Bands

| | |
|---------------|------------|
| 1800 - 2000 | 160 Meters |
| 3500 - 3750 | 80 Meters |
| 7000 - 7150 | 40 Meters |
| 10100 - 10150 | 30 Meters |
| 14000 - 14150 | 20 Meters |
| 18068 - 18110 | 17 Meters |
| 21000 - 21200 | 15 Meters |
| 24890 - 24930 | 12 Meters |
| 28000 - 28300 | 10 Meters |

AM and FM below 30 MHz

| | |
|---------------|--------------------|
| 535 - 1705 | AM Broadcast |
| 2170 - 2194 | Land Mobile |
| 25010 - 25330 | Petroleum Industry |
| 26100 - 26480 | Land Mobile |
| 26960 - 27410 | Citizens' Band |
| 27410 - 27540 | Land Mobile |
| 29700 - 29800 | Forestry Service |

800 MHz Cellular Phone Frequency Listing

Cellular frequency spacing is 30 kHz. In the USA, there are two service providers available to the customer. The Cellular Service Providers (CSP) are referred to as the 'A' side and the 'B' side

| Service A | Service B |
|-------------------|-------------------|
| 824.040 - 834.990 | 835.020 - 844.980 |
| 869.040 - 879.990 | 880.020 - 889.980 |
| 845.010 - 846.480 | 846.510 - 848.970 |
| 890.010 - 891.480 | 891.510 - 893.970 |

Cellular Phone Channelization Methods

Here is a method of determining which frequencies are used in a cellular system, and which ones are in what cells. If the system uses non-sector cells, as most do, you can readily find all the channels in a cell if you know just one of them. The tables below illustrate how this is possible.

Cellular frequencies are assigned by channel number, and for all channel numbers, in both wireline and non-wireline systems, the formula is:

$$\text{Transmit Frequency} = (\text{channel number} \times .030 \text{ MHz}) + 870 \text{ MHz}$$

$$\text{Receive Frequency} = (\text{channel number} \times .030 \text{ Mhz}) + 825 \text{ Mhz}$$

"Band A" (one of the two blocks) uses channels 1 - 333. To construct a table showing frequency by cells, use channel 333 as the top left corner of a table. The next entry to the right of channel 333 is 332, the next is 331, etc., down to channel 313. Enter channel 312 underneath 333, 311 under 332, etc. Each channel across the top row is the first channel in each CELL of the system; each channel DOWN from the column from the the first channel is the next frequency assigned to that cell. You may have noted that each channel down is 21 channels lower in number. Usually the data channel used is the highest numbered channel in a cell.

"Band B" uses channels from 334 to 666. Construct your table in a similar way, with channel 334 in the upper left corner, 335 the next entry to the right. The data channel should be the lowest numbered channel in each cell this time.

Cellular Phone Band A (Channel 1 is Data and Setup)

Cell # 1

| | | |
|------------------|------------|------------|
| Channel 1 (333) | Tx 879.990 | Rx 834.990 |
| Channel 2 (312) | Tx 879.360 | Rx 834.360 |
| Channel 3 (291) | Tx 878.730 | Rx 833.730 |
| Channel 4 (270) | Tx 878.100 | Rx 833.100 |
| Channel 5 (249) | Tx 877.470 | Rx 832.470 |
| Channel 6 (228) | Tx 876.840 | Rx 831.840 |
| Channel 7 (207) | Tx 876.210 | Rx 831.210 |
| Channel 8 (186) | Tx 875.580 | Rx 830.580 |
| Channel 9 (165) | Tx 874.950 | Rx 829.950 |
| Channel 10 (144) | Tx 874.320 | Rx 829.320 |
| Channel 11 (123) | Tx 873.690 | Rx 828.690 |
| Channel 12 (102) | Tx 873.060 | Rx 828.060 |
| Channel 13 (81) | Tx 872.430 | Rx 827.430 |

Channel 14 (60) Tx 871.800 Rx 826.800
Channel 15 (39) Tx 871.170 Rx 826.170
Channel 16 (18) Tx 870.540 Rx 825.540

Cell # 2

Channel 1 (332) Tx 879.960 Rx 834.960
Channel 2 (311) Tx 879.330 Rx 834.330
Channel 3 (290) Tx 878.700 Rx 833.700
Channel 4 (269) Tx 878.070 Rx 833.070
Channel 5 (248) Tx 877.440 Rx 832.440
Channel 6 (227) Tx 876.810 Rx 831.810
Channel 7 (206) Tx 876.180 Rx 831.180
Channel 8 (185) Tx 875.550 Rx 830.550
Channel 9 (164) Tx 874.920 Rx 829.920
Channel 10 (143) Tx 874.290 Rx 829.290
Channel 11 (122) Tx 873.660 Rx 828.660
Channel 12 (101) Tx 873.030 Rx 828.030
Channel 13 (80) Tx 872.400 Rx 827.400
Channel 14 (59) Tx 871.770 Rx 826.770
Channel 15 (38) Tx 871.140 Rx 826.140
Channel 16 (17) Tx 870.510 Rx 825.510

Cell # 3

Channel 1 (331) Tx 879.930 Rx 834.930
Channel 2 (310) Tx 879.300 Rx 834.300
Channel 3 (289) Tx 878.670 Rx 833.670
Channel 4 (268) Tx 878.040 Rx 833.040
Channel 5 (247) Tx 877.410 Rx 832.410
Channel 6 (226) Tx 876.780 Rx 831.780
Channel 7 (205) Tx 876.150 Rx 831.150
Channel 8 (184) Tx 875.520 Rx 830.520
Channel 9 (163) Tx 874.890 Rx 829.890
Channel 10 (142) Tx 874.260 Rx 829.260
Channel 11 (121) Tx 873.630 Rx 828.630
Channel 12 (100) Tx 873.000 Rx 828.000
Channel 13 (79) Tx 872.370 Rx 827.370
Channel 14 (58) Tx 871.740 Rx 826.740
Channel 15 (37) Tx 871.110 Rx 826.110
Channel 16 (16) Tx 870.480 Rx 825.480

Cell # 4

Channel 1 (330) Tx 879.900 Rx 834.900
Channel 2 (309) Tx 879.270 Rx 834.270
Channel 3 (288) Tx 878.640 Rx 833.640
Channel 4 (267) Tx 878.010 Rx 833.010
Channel 5 (246) Tx 877.380 Rx 832.380
Channel 6 (225) Tx 876.750 Rx 831.750
Channel 7 (204) Tx 876.120 Rx 831.120
Channel 8 (183) Tx 875.490 Rx 830.490
Channel 9 (162) Tx 874.860 Rx 829.860
Channel 10 (141) Tx 874.230 Rx 829.230
Channel 11 (120) Tx 873.600 Rx 828.600
Channel 12 (99) Tx 872.970 Rx 827.970
Channel 13 (78) Tx 872.340 Rx 827.340

Channel 14 (57) Tx 871.710 Rx 826.710
Channel 15 (36) Tx 871.080 Rx 826.080
Channel 16 (15) Tx 870.450 Rx 825.450

Cell # 5

Channel 1 (329) Tx 879.870 Rx 834.870
Channel 2 (308) Tx 879.240 Rx 834.240
Channel 3 (287) Tx 878.610 Rx 833.610
Channel 4 (266) Tx 877.980 Rx 832.980
Channel 5 (245) Tx 877.350 Rx 832.350
Channel 6 (224) Tx 876.720 Rx 831.720
Channel 7 (203) Tx 876.090 Rx 831.090
Channel 8 (182) Tx 875.460 Rx 830.460
Channel 9 (161) Tx 874.830 Rx 829.830
Channel 10 (140) Tx 874.200 Rx 829.200
Channel 11 (119) Tx 873.570 Rx 828.570
Channel 12 (98) Tx 872.940 Rx 827.940
Channel 13 (77) Tx 872.310 Rx 827.310
Channel 14 (56) Tx 871.680 Rx 826.680
Channel 15 (35) Tx 871.050 Rx 826.050
Channel 16 (14) Tx 870.420 Rx 825.420

Cell # 6

Channel 1 (328) Tx 879.840 Rx 834.840
Channel 2 (307) Tx 879.210 Rx 834.210
Channel 3 (286) Tx 878.580 Rx 833.580
Channel 4 (265) Tx 877.950 Rx 832.950
Channel 5 (244) Tx 877.320 Rx 832.320
Channel 6 (223) Tx 876.690 Rx 831.690
Channel 7 (202) Tx 876.060 Rx 831.060
Channel 8 (181) Tx 875.430 Rx 830.430
Channel 9 (160) Tx 874.800 Rx 829.800
Channel 10 (139) Tx 874.170 Rx 829.170
Channel 11 (118) Tx 873.540 Rx 828.540
Channel 12 (97) Tx 872.910 Rx 827.910
Channel 13 (76) Tx 872.280 Rx 827.280
Channel 14 (55) Tx 871.650 Rx 826.650
Channel 15 (34) Tx 871.020 Rx 826.020
Channel 16 (13) Tx 870.390 Rx 825.390

Cell # 7

Channel 1 (327) Tx 879.810 Rx 834.810
Channel 2 (306) Tx 879.180 Rx 834.180
Channel 3 (285) Tx 878.550 Rx 833.550
Channel 4 (264) Tx 877.920 Rx 832.920
Channel 5 (243) Tx 877.290 Rx 832.290
Channel 6 (222) Tx 876.660 Rx 831.660
Channel 7 (201) Tx 876.030 Rx 831.030
Channel 8 (180) Tx 875.400 Rx 830.400
Channel 9 (159) Tx 874.770 Rx 829.770
Channel 10 (138) Tx 874.140 Rx 829.140
Channel 11 (117) Tx 873.510 Rx 828.510
Channel 12 (96) Tx 872.880 Rx 827.880
Channel 13 (75) Tx 872.250 Rx 827.250
Channel 14 (54) Tx 871.620 Rx 826.620

Channel 15 (33) Tx 870.990 Rx 825.990
Channel 16 (12) Tx 870.360 Rx 825.360

Cell # 8

Channel 1 (326) Tx 879.780 Rx 834.780
Channel 2 (305) Tx 879.150 Rx 834.150
Channel 3 (284) Tx 878.520 Rx 833.520
Channel 4 (263) Tx 877.890 Rx 832.890
Channel 5 (242) Tx 877.260 Rx 832.260
Channel 6 (221) Tx 876.630 Rx 831.630
Channel 7 (200) Tx 876.000 Rx 831.000
Channel 8 (179) Tx 875.370 Rx 830.370
Channel 9 (158) Tx 874.740 Rx 829.740
Channel 10 (137) Tx 874.110 Rx 829.110
Channel 11 (116) Tx 873.480 Rx 828.480
Channel 12 (95) Tx 872.850 Rx 827.850
Channel 13 (74) Tx 872.220 Rx 827.220
Channel 14 (53) Tx 871.590 Rx 826.590
Channel 15 (32) Tx 870.960 Rx 825.960
Channel 16 (11) Tx 870.330 Rx 825.330

Cell # 9

Channel 1 (325) Tx 879.750 Rx 834.750
Channel 2 (304) Tx 879.120 Rx 834.120
Channel 3 (283) Tx 878.490 Rx 833.490
Channel 4 (262) Tx 877.860 Rx 832.860
Channel 5 (241) Tx 877.230 Rx 832.230
Channel 6 (220) Tx 876.600 Rx 831.600
Channel 7 (199) Tx 875.970 Rx 830.970
Channel 8 (178) Tx 875.340 Rx 830.340
Channel 9 (157) Tx 874.710 Rx 829.710
Channel 10 (136) Tx 874.080 Rx 829.080
Channel 11 (115) Tx 873.450 Rx 828.450
Channel 12 (94) Tx 872.820 Rx 827.820
Channel 13 (73) Tx 872.190 Rx 827.190
Channel 14 (52) Tx 871.560 Rx 826.560
Channel 15 (31) Tx 870.930 Rx 825.930
Channel 16 (10) Tx 870.300 Rx 825.300

Cell # 10

Channel 1 (324) Tx 879.720 Rx 834.720
Channel 2 (303) Tx 879.090 Rx 834.090
Channel 3 (282) Tx 878.460 Rx 833.460
Channel 4 (261) Tx 877.830 Rx 832.830
Channel 5 (240) Tx 877.200 Rx 832.200
Channel 6 (219) Tx 876.570 Rx 831.570
Channel 7 (198) Tx 875.940 Rx 830.940
Channel 8 (177) Tx 875.310 Rx 830.310

Channel 9 (156) Tx 874.680 Rx 829.680
Channel 10 (135) Tx 874.050 Rx 829.050
Channel 11 (114) Tx 873.420 Rx 828.420
Channel 12 (93) Tx 872.790 Rx 827.790
Channel 13 (72) Tx 872.160 Rx 827.160
Channel 14 (51) Tx 871.530 Rx 826.530
Channel 15 (30) Tx 870.900 Rx 825.900
Channel 16 (9) Tx 870.270 Rx 825.270

Cell # 11

Channel 1 (323) Tx 879.690 Rx 834.690
Channel 2 (302) Tx 879.060 Rx 834.060
Channel 3 (281) Tx 878.430 Rx 833.430
Channel 4 (260) Tx 877.800 Rx 832.800
Channel 5 (239) Tx 877.170 Rx 832.170
Channel 6 (218) Tx 876.540 Rx 831.540
Channel 7 (197) Tx 875.910 Rx 830.910
Channel 8 (176) Tx 875.280 Rx 830.280
Channel 9 (155) Tx 874.650 Rx 829.650
Channel 10 (134) Tx 874.020 Rx 829.020
Channel 11 (113) Tx 873.390 Rx 828.390
Channel 12 (92) Tx 872.760 Rx 827.760
Channel 13 (71) Tx 872.130 Rx 827.130
Channel 14 (50) Tx 871.500 Rx 826.500
Channel 15 (29) Tx 870.870 Rx 825.870
Channel 16 (8) Tx 870.240 Rx 825.240

Cell # 12

Channel 1 (322) Tx 879.660 Rx 834.660
Channel 2 (301) Tx 879.030 Rx 834.030

Channel 3 (280) Tx 878.400 Rx 833.400
Channel 4 (259) Tx 877.770 Rx 832.770
Channel 5 (238) Tx 877.140 Rx 832.140
Channel 6 (217) Tx 876.510 Rx 831.510
Channel 7 (196) Tx 875.880 Rx 830.880
Channel 8 (175) Tx 875.250 Rx 830.250
Channel 9 (154) Tx 874.620 Rx 829.620
Channel 10 (133) Tx 873.990 Rx 828.990
Channel 11 (112) Tx 873.360 Rx 828.360
Channel 12 (91) Tx 872.730 Rx 827.730
Channel 13 (70) Tx 872.100 Rx 827.100
Channel 14 (49) Tx 871.470 Rx 826.470
Channel 15 (28) Tx 870.840 Rx 825.840
Channel 16 (7) Tx 870.210 Rx 825.210

Cell # 13

Channel 1 (321) Tx 879.630 Rx 834.630
Channel 2 (300) Tx 879.000 Rx 834.000
Channel 3 (279) Tx 878.370 Rx 833.370
Channel 4 (258) Tx 877.740 Rx 832.740
Channel 5 (237) Tx 877.110 Rx 832.110
Channel 6 (216) Tx 876.480 Rx 831.480
Channel 7 (195) Tx 875.850 Rx 830.850
Channel 8 (174) Tx 875.220 Rx 830.220
Channel 9 (153) Tx 874.590 Rx 829.590
Channel 10 (132) Tx 873.960 Rx 828.960
Channel 11 (111) Tx 873.330 Rx 828.330
Channel 12 (90) Tx 872.700 Rx 827.700
Channel 13 (69) Tx 872.070 Rx 827.070
Channel 14 (48) Tx 871.440 Rx 826.440

Channel 15 (27) Tx 870.810 Rx 825.810

Channel 16 (6) Tx 870.180 Rx 825.180

Cell # 14

Channel 1 (320) Tx 879.600 Rx 834.600

Channel 2 (299) Tx 878.970 Rx 833.970

Channel 3 (278) Tx 878.340 Rx 833.340

Channel 4 (257) Tx 877.710 Rx 832.710

Channel 5 (236) Tx 877.080 Rx 832.080

Channel 6 (215) Tx 876.450 Rx 831.450

Channel 7 (194) Tx 875.820 Rx 830.820

Channel 8 (173) Tx 875.190 Rx 830.190

Channel 9 (152) Tx 874.560 Rx 829.560

Channel 10 (131) Tx 873.930 Rx 828.930

Channel 11 (110) Tx 873.300 Rx 828.300

Channel 12 (89) Tx 872.670 Rx 827.670

Channel 13 (68) Tx 872.040 Rx 827.040

Channel 14 (47) Tx 871.410 Rx 826.410

Channel 15 (26) Tx 870.780 Rx 825.780

Channel 16 (5) Tx 870.150 Rx 825.150

Cell # 15

Channel 1 (319) Tx 879.570 Rx 834.570

Channel 2 (298) Tx 878.940 Rx 833.940

Channel 3 (277) Tx 878.310 Rx 833.310

Channel 4 (256) Tx 877.680 Rx 832.680

Channel 5 (235) Tx 877.050 Rx 832.050

Channel 6 (214) Tx 876.420 Rx 831.420

Channel 7 (193) Tx 875.790 Rx 830.790

Channel 8 (172) Tx 875.160 Rx 830.160

Channel 9 (151) Tx 874.530 Rx 829.530
Channel 10 (130) Tx 873.900 Rx 828.900
Channel 11 (109) Tx 873.270 Rx 828.270
Channel 12 (88) Tx 872.640 Rx 827.640
Channel 13 (67) Tx 872.010 Rx 827.010
Channel 14 (46) Tx 871.380 Rx 826.380
Channel 15 (25) Tx 870.750 Rx 825.750
Channel 16 (4) Tx 870.120 Rx 825.120

Cell # 16

Channel 1 (318) Tx 879.540 Rx 834.540
Channel 2 (297) Tx 878.910 Rx 833.910
Channel 3 (276) Tx 878.280 Rx 833.280
Channel 4 (255) Tx 877.650 Rx 832.650
Channel 5 (234) Tx 877.020 Rx 832.020
Channel 6 (213) Tx 876.390 Rx 831.390
Channel 7 (192) Tx 875.760 Rx 830.760
Channel 8 (171) Tx 875.130 Rx 830.130
Channel 9 (150) Tx 874.500 Rx 829.500
Channel 10 (129) Tx 873.870 Rx 828.870
Channel 11 (108) Tx 873.240 Rx 828.240
Channel 12 (87) Tx 872.610 Rx 827.610
Channel 13 (66) Tx 871.980 Rx 826.980
Channel 14 (45) Tx 871.350 Rx 826.350
Channel 15 (24) Tx 870.720 Rx 825.720
Channel 16 (3) Tx 870.090 Rx 825.090

Cell # 17

Channel 1 (317) Tx 879.510 Rx 834.510
Channel 2 (296) Tx 878.880 Rx 833.880

Channel 3 (275) Tx 878.250 Rx 833.250
Channel 4 (254) Tx 877.620 Rx 832.620
Channel 5 (233) Tx 876.990 Rx 831.990
Channel 6 (212) Tx 876.360 Rx 831.360
Channel 7 (191) Tx 875.730 Rx 830.730
Channel 8 (170) Tx 875.100 Rx 830.100
Channel 9 (149) Tx 874.470 Rx 829.470
Channel 10 (128) Tx 873.840 Rx 828.840
Channel 11 (107) Tx 873.210 Rx 828.210
Channel 12 (86) Tx 872.580 Rx 827.580
Channel 13 (65) Tx 871.950 Rx 826.950
Channel 14 (44) Tx 871.320 Rx 826.320
Channel 15 (23) Tx 870.690 Rx 825.690
Channel 16 (2) Tx 870.060 Rx 825.060

Cell # 18

Channel 1 (316) Tx 879.480 Rx 834.480
Channel 2 (295) Tx 878.850 Rx 833.850
Channel 3 (274) Tx 878.220 Rx 833.220
Channel 4 (253) Tx 877.590 Rx 832.590
Channel 5 (232) Tx 876.960 Rx 831.960
Channel 6 (211) Tx 876.330 Rx 831.330
Channel 7 (190) Tx 875.700 Rx 830.700
Channel 8 (169) Tx 875.070 Rx 830.070
Channel 9 (148) Tx 874.440 Rx 829.440
Channel 10 (127) Tx 873.810 Rx 828.810
Channel 11 (106) Tx 873.180 Rx 828.180
Channel 12 (85) Tx 872.550 Rx 827.550
Channel 13 (64) Tx 871.920 Rx 826.920
Channel 14 (43) Tx 871.290 Rx 826.290
Channel 15 (22) Tx 870.660 Rx 825.660

Channel 16 (1) Tx 870.030 Rx 825.030

Cell # 19

Channel 1 (315) Tx 879.450 Rx 834.450

Channel 2 (294) Tx 878.820 Rx 833.820

Channel 3 (273) Tx 878.190 Rx 833.190

Channel 4 (252) Tx 877.560 Rx 832.560

Channel 5 (231) Tx 876.930 Rx 831.930

Channel 6 (210) Tx 876.300 Rx 831.300

Channel 7 (189) Tx 875.670 Rx 830.670

Channel 8 (168) Tx 875.040 Rx 830.040

Channel 9 (147) Tx 874.410 Rx 829.410

Channel 10 (126) Tx 873.780 Rx 828.780

Channel 11 (105) Tx 873.150 Rx 828.150

Channel 12 (84) Tx 872.520 Rx 827.520

Channel 13 (63) Tx 871.890 Rx 826.890

Channel 14 (42) Tx 871.260 Rx 826.260

Channel 15 (21) Tx 870.630 Rx 825.630

Cell # 20

Channel 1 (314) Tx 879.420 Rx 834.420

Channel 2 (293) Tx 878.790 Rx 833.790

Channel 3 (272) Tx 878.160 Rx 833.160

Channel 4 (251) Tx 877.530 Rx 832.530

Channel 5 (230) Tx 876.900 Rx 831.900

Channel 6 (209) Tx 876.270 Rx 831.270

Channel 7 (188) Tx 875.640 Rx 830.640

Channel 8 (167) Tx 875.010 Rx 830.010

Channel 9 (146) Tx 874.380 Rx 829.380

Channel 10 (125) Tx 873.750 Rx 828.750

Channel 11 (104) Tx 873.120 Rx 828.120
Channel 12 (83) Tx 872.490 Rx 827.490
Channel 13 (62) Tx 871.860 Rx 826.860
Channel 14 (41) Tx 871.230 Rx 826.230
Channel 15 (20) Tx 870.600 Rx 825.600

Cell # 21

Channel 1 (313) Tx 879.390 Rx 834.390
Channel 2 (292) Tx 878.760 Rx 833.760
Channel 3 (271) Tx 878.130 Rx 833.130
Channel 4 (250) Tx 877.500 Rx 832.500
Channel 5 (229) Tx 876.870 Rx 831.870
Channel 6 (208) Tx 876.240 Rx 831.240
Channel 7 (187) Tx 875.610 Rx 830.610
Channel 8 (166) Tx 874.980 Rx 829.980
Channel 9 (145) Tx 874.350 Rx 829.350
Channel 10 (124) Tx 873.720 Rx 828.720
Channel 11 (103) Tx 873.090 Rx 828.090
Channel 12 (82) Tx 872.460 Rx 827.460
Channel 13 (61) Tx 871.830 Rx 826.830
Channel 14 (40) Tx 871.200 Rx 826.200
Channel 15 (19) Tx 870.570 Rx 825.570

Cellular Phone Band B (Channel 1 is Data)

Cell # 1

Channel 1 (334) Tx 880.020 Rx 835.020

Channel 2 (355) Tx 880.650 Rx 835.650
Channel 3 (376) Tx 881.280 Rx 836.280
Channel 4 (397) Tx 881.910 Rx 836.910
Channel 5 (418) Tx 882.540 Rx 837.540
Channel 6 (439) Tx 883.170 Rx 838.170
Channel 7 (460) Tx 883.800 Rx 838.800
Channel 8 (481) Tx 884.430 Rx 839.430
Channel 9 (502) Tx 885.060 Rx 840.060
Channel 10 (523) Tx 885.690 Rx 840.690
Channel 11 (544) Tx 886.320 Rx 841.320
Channel 12 (565) Tx 886.950 Rx 841.950
Channel 13 (586) Tx 887.580 Rx 842.580
Channel 14 (607) Tx 888.210 Rx 843.210
Channel 15 (628) Tx 888.840 Rx 843.840
Channel 16 (649) Tx 889.470 Rx 844.470

Cell # 2

Channel 1 (335) Tx 880.050 Rx 835.050
Channel 2 (356) Tx 880.680 Rx 835.680
Channel 3 (377) Tx 881.310 Rx 836.310
Channel 4 (398) Tx 881.940 Rx 836.940
Channel 5 (419) Tx 882.570 Rx 837.570
Channel 6 (440) Tx 883.200 Rx 838.200
Channel 7 (461) Tx 883.830 Rx 838.830
Channel 8 (482) Tx 884.460 Rx 839.460
Channel 9 (503) Tx 885.090 Rx 840.090
Channel 10 (524) Tx 885.720 Rx 840.720
Channel 11 (545) Tx 886.350 Rx 841.350
Channel 12 (566) Tx 886.980 Rx 841.980
Channel 13 (587) Tx 887.610 Rx 842.610

Channel 14 (608) Tx 888.240 Rx 843.240
Channel 15 (629) Tx 888.870 Rx 843.870
Channel 16 (650) Tx 889.500 Rx 844.500

Cell # 3

Channel 1 (336) Tx 880.080 Rx 835.080
Channel 2 (357) Tx 880.710 Rx 835.710
Channel 3 (378) Tx 881.340 Rx 836.340
Channel 4 (399) Tx 881.970 Rx 836.970
Channel 5 (420) Tx 882.600 Rx 837.600
Channel 6 (441) Tx 883.230 Rx 838.230
Channel 7 (462) Tx 883.860 Rx 838.860
Channel 8 (483) Tx 884.490 Rx 839.490
Channel 9 (504) Tx 885.120 Rx 840.120
Channel 10 (525) Tx 885.750 Rx 840.750
Channel 11 (546) Tx 886.380 Rx 841.380
Channel 12 (567) Tx 887.010 Rx 842.010
Channel 13 (588) Tx 887.640 Rx 842.640
Channel 14 (609) Tx 888.270 Rx 843.270
Channel 15 (630) Tx 888.900 Rx 843.900
Channel 16 (651) Tx 889.530 Rx 844.530

Cell # 4

Channel 1 (337) Tx 880.110 Rx 835.110
Channel 2 (358) Tx 880.740 Rx 835.740
Channel 3 (379) Tx 881.370 Rx 836.370
Channel 4 (400) Tx 882.000 Rx 837.000
Channel 5 (421) Tx 882.630 Rx 837.630
Channel 6 (442) Tx 883.260 Rx 838.260
Channel 7 (463) Tx 883.890 Rx 838.890

Channel 8 (484) Tx 884.520 Rx 839.520
Channel 9 (505) Tx 885.150 Rx 840.150
Channel 10 (526) Tx 885.780 Rx 840.780
Channel 11 (547) Tx 886.410 Rx 841.410
Channel 12 (568) Tx 887.040 Rx 842.040
Channel 13 (589) Tx 887.670 Rx 842.670
Channel 14 (610) Tx 888.300 Rx 843.300
Channel 15 (631) Tx 888.930 Rx 843.930
Channel 16 (652) Tx 889.560 Rx 844.560

Cell # 5

Channel 1 (338) Tx 880.140 Rx 835.140
Channel 2 (359) Tx 880.770 Rx 835.770
Channel 3 (380) Tx 881.400 Rx 836.400
Channel 4 (401) Tx 882.030 Rx 837.030
Channel 5 (422) Tx 882.660 Rx 837.660
Channel 6 (443) Tx 883.290 Rx 838.290
Channel 7 (464) Tx 883.920 Rx 838.920
Channel 8 (485) Tx 884.550 Rx 839.550
Channel 9 (506) Tx 885.180 Rx 840.180
Channel 10 (527) Tx 885.810 Rx 840.810
Channel 11 (548) Tx 886.440 Rx 841.440
Channel 12 (569) Tx 887.070 Rx 842.070
Channel 13 (590) Tx 887.700 Rx 842.700
Channel 14 (611) Tx 888.330 Rx 843.330
Channel 15 (632) Tx 888.960 Rx 843.960
Channel 16 (653) Tx 889.590 Rx 844.590

Cell # 6

Channel 1 (339) Tx 880.170 Rx 835.170

Channel 2 (360) Tx 880.800 Rx 835.800
Channel 3 (381) Tx 881.430 Rx 836.430
Channel 4 (402) Tx 882.060 Rx 837.060
Channel 5 (423) Tx 882.690 Rx 837.690
Channel 6 (444) Tx 883.320 Rx 838.320
Channel 7 (465) Tx 883.950 Rx 838.950
Channel 8 (486) Tx 884.580 Rx 839.580
Channel 9 (507) Tx 885.210 Rx 840.210
Channel 10 (528) Tx 885.840 Rx 840.840
Channel 11 (549) Tx 886.470 Rx 841.470
Channel 12 (570) Tx 887.100 Rx 842.100
Channel 13 (591) Tx 887.730 Rx 842.730
Channel 14 (612) Tx 888.360 Rx 843.360
Channel 15 (633) Tx 888.990 Rx 843.990
Channel 16 (654) Tx 889.620 Rx 844.620

Cell # 7

Channel 1 (340) Tx 880.200 Rx 835.200
Channel 2 (361) Tx 880.830 Rx 835.830
Channel 3 (382) Tx 881.460 Rx 836.460
Channel 4 (403) Tx 882.090 Rx 837.090
Channel 5 (424) Tx 882.720 Rx 837.720
Channel 6 (445) Tx 883.350 Rx 838.350
Channel 7 (466) Tx 883.980 Rx 838.980
Channel 8 (487) Tx 884.610 Rx 839.610
Channel 9 (508) Tx 885.240 Rx 840.240
Channel 10 (529) Tx 885.870 Rx 840.870
Channel 11 (550) Tx 886.500 Rx 841.500
Channel 12 (571) Tx 887.130 Rx 842.130
Channel 13 (592) Tx 887.760 Rx 842.760
Channel 14 (613) Tx 888.390 Rx 843.390

Channel 15 (634) Tx 889.020 Rx 844.020

Channel 16 (655) Tx 889.650 Rx 844.650

Cell # 8

Channel 1 (341) Tx 880.230 Rx 835.230

Channel 2 (362) Tx 880.860 Rx 835.860

Channel 3 (383) Tx 881.490 Rx 836.490

Channel 4 (404) Tx 882.120 Rx 837.120

Channel 5 (425) Tx 882.750 Rx 837.750

Channel 6 (446) Tx 883.380 Rx 838.380

Channel 7 (467) Tx 884.010 Rx 839.010

Channel 8 (488) Tx 884.640 Rx 839.640

Channel 9 (509) Tx 885.270 Rx 840.270

Channel 10 (530) Tx 885.900 Rx 840.900

Channel 11 (551) Tx 886.530 Rx 841.530

Channel 12 (572) Tx 887.160 Rx 842.160

Channel 13 (593) Tx 887.790 Rx 842.790

Channel 14 (614) Tx 888.420 Rx 843.420

Channel 15 (635) Tx 889.050 Rx 844.050

Channel 16 (656) Tx 889.680 Rx 844.680

Cell # 9

Channel 1 (342) Tx 880.260 Rx 835.260

Channel 2 (363) Tx 880.890 Rx 835.890

Channel 3 (384) Tx 881.520 Rx 836.520

Channel 4 (405) Tx 882.150 Rx 837.150

Channel 5 (426) Tx 882.780 Rx 837.780

Channel 6 (447) Tx 883.410 Rx 838.410

Channel 7 (468) Tx 884.040 Rx 839.040

Channel 8 (489) Tx 884.670 Rx 839.670

Channel 9 (510) Tx 885.300 Rx 840.300
Channel 10 (531) Tx 885.930 Rx 840.930
Channel 11 (552) Tx 886.560 Rx 841.560
Channel 12 (573) Tx 887.190 Rx 842.190
Channel 13 (594) Tx 887.820 Rx 842.820
Channel 14 (615) Tx 888.450 Rx 843.450
Channel 15 (636) Tx 889.080 Rx 844.080
Channel 16 (657) Tx 889.710 Rx 844.710

Cell # 10

Channel 1 (343) Tx 880.290 Rx 835.290
Channel 2 (364) Tx 880.920 Rx 835.920
Channel 3 (385) Tx 881.550 Rx 836.550
Channel 4 (406) Tx 882.180 Rx 837.180
Channel 5 (427) Tx 882.810 Rx 837.810
Channel 6 (448) Tx 883.440 Rx 838.440
Channel 7 (469) Tx 884.070 Rx 839.070
Channel 8 (490) Tx 884.700 Rx 839.700
Channel 9 (511) Tx 885.330 Rx 840.330
Channel 10 (532) Tx 885.960 Rx 840.960
Channel 11 (553) Tx 886.590 Rx 841.590
Channel 12 (574) Tx 887.220 Rx 842.220
Channel 13 (595) Tx 887.850 Rx 842.850
Channel 14 (616) Tx 888.480 Rx 843.480
Channel 15 (637) Tx 889.110 Rx 844.110
Channel 16 (658) Tx 889.740 Rx 844.740

Cell # 11

Channel 1 (344) Tx 880.320 Rx 835.320
Channel 2 (365) Tx 880.950 Rx 835.950

Channel 3 (386) Tx 881.580 Rx 836.580
Channel 4 (407) Tx 882.210 Rx 837.210
Channel 5 (428) Tx 882.840 Rx 837.840
Channel 6 (449) Tx 883.470 Rx 838.470
Channel 7 (470) Tx 884.100 Rx 839.100
Channel 8 (491) Tx 884.730 Rx 839.730
Channel 9 (512) Tx 885.360 Rx 840.360
Channel 10 (533) Tx 885.990 Rx 840.990
Channel 11 (554) Tx 886.620 Rx 841.620
Channel 12 (575) Tx 887.250 Rx 842.250
Channel 13 (596) Tx 887.880 Rx 842.880
Channel 14 (617) Tx 888.510 Rx 843.510
Channel 15 (638) Tx 889.140 Rx 844.140
Channel 16 (659) Tx 889.770 Rx 844.770

Cell # 12

Channel 1 (345) Tx 880.350 Rx 835.350
Channel 2 (366) Tx 880.980 Rx 835.980
Channel 3 (387) Tx 881.610 Rx 836.610
Channel 4 (408) Tx 882.240 Rx 837.240
Channel 5 (429) Tx 882.870 Rx 837.870
Channel 6 (450) Tx 883.500 Rx 838.500
Channel 7 (471) Tx 884.130 Rx 839.130
Channel 8 (492) Tx 884.760 Rx 839.760
Channel 9 (513) Tx 885.390 Rx 840.390
Channel 10 (534) Tx 886.020 Rx 841.020
Channel 11 (555) Tx 886.650 Rx 841.650
Channel 12 (576) Tx 887.280 Rx 842.280
Channel 13 (597) Tx 887.910 Rx 842.910
Channel 14 (618) Tx 888.540 Rx 843.540

Channel 15 (639) Tx 889.170 Rx 844.170

Channel 16 (660) Tx 889.800 Rx 844.800

Cell # 13

Channel 1 (346) Tx 880.380 Rx 835.380

Channel 2 (367) Tx 881.010 Rx 836.010

Channel 3 (388) Tx 881.640 Rx 836.640

Channel 4 (409) Tx 882.270 Rx 837.270

Channel 5 (430) Tx 882.900 Rx 837.900

Channel 6 (451) Tx 883.530 Rx 838.530

Channel 7 (472) Tx 884.160 Rx 839.160

Channel 8 (493) Tx 884.790 Rx 839.790

Channel 9 (514) Tx 885.420 Rx 840.420

Channel 10 (535) Tx 886.050 Rx 841.050

Channel 11 (556) Tx 886.680 Rx 841.680

Channel 12 (577) Tx 887.310 Rx 842.310

Channel 13 (598) Tx 887.940 Rx 842.940

Channel 14 (619) Tx 888.570 Rx 843.570

Channel 15 (640) Tx 889.200 Rx 844.200

Channel 16 (661) Tx 889.830 Rx 844.830

Cell # 14

Channel 1 (347) Tx 880.410 Rx 835.410

Channel 2 (368) Tx 881.040 Rx 836.040

Channel 3 (389) Tx 881.670 Rx 836.670

Channel 4 (410) Tx 882.300 Rx 837.300

Channel 5 (431) Tx 882.930 Rx 837.930

Channel 6 (452) Tx 883.560 Rx 838.560

Channel 7 (473) Tx 884.190 Rx 839.190

Channel 8 (494) Tx 884.820 Rx 839.820

Channel 9 (515) Tx 885.450 Rx 840.450
Channel 10 (536) Tx 886.080 Rx 841.080
Channel 11 (557) Tx 886.710 Rx 841.710
Channel 12 (578) Tx 887.340 Rx 842.340
Channel 13 (599) Tx 887.970 Rx 842.970
Channel 14 (620) Tx 888.600 Rx 843.600
Channel 15 (641) Tx 889.230 Rx 844.230
Channel 16 (662) Tx 889.860 Rx 844.860

Cell # 15

Channel 1 (348) Tx 880.440 Rx 835.440
Channel 2 (369) Tx 881.070 Rx 836.070
Channel 3 (390) Tx 881.700 Rx 836.700
Channel 4 (411) Tx 882.330 Rx 837.330
Channel 5 (432) Tx 882.960 Rx 837.960
Channel 6 (453) Tx 883.590 Rx 838.590
Channel 7 (474) Tx 884.220 Rx 839.220
Channel 8 (495) Tx 884.850 Rx 839.850
Channel 9 (516) Tx 885.480 Rx 840.480
Channel 10 (537) Tx 886.110 Rx 841.110
Channel 11 (558) Tx 886.740 Rx 841.740
Channel 12 (579) Tx 887.370 Rx 842.370
Channel 13 (600) Tx 888.000 Rx 843.000
Channel 14 (621) Tx 888.630 Rx 843.630
Channel 15 (642) Tx 889.260 Rx 844.260
Channel 16 (663) Tx 889.890 Rx 844.890

Cell # 16

Channel 1 (349) Tx 880.470 Rx 835.470
Channel 2 (370) Tx 881.100 Rx 836.100

Channel 3 (391) Tx 881.730 Rx 836.730
Channel 4 (412) Tx 882.360 Rx 837.360
Channel 5 (433) Tx 882.990 Rx 837.990
Channel 6 (454) Tx 883.620 Rx 838.620
Channel 7 (475) Tx 884.250 Rx 839.250
Channel 8 (496) Tx 884.880 Rx 839.880
Channel 9 (517) Tx 885.510 Rx 840.510
Channel 10 (538) Tx 886.140 Rx 841.140
Channel 11 (559) Tx 886.770 Rx 841.770
Channel 12 (580) Tx 887.400 Rx 842.400
Channel 13 (601) Tx 888.030 Rx 843.030
Channel 14 (622) Tx 888.660 Rx 843.660
Channel 15 (643) Tx 889.290 Rx 844.290
Channel 16 (664) Tx 889.920 Rx 844.920

Cell # 17

Channel 1 (350) Tx 880.500 Rx 835.500
Channel 2 (371) Tx 881.130 Rx 836.130
Channel 3 (392) Tx 881.760 Rx 836.760
Channel 4 (413) Tx 882.390 Rx 837.390
Channel 5 (434) Tx 883.020 Rx 838.020
Channel 6 (455) Tx 883.650 Rx 838.650
Channel 7 (476) Tx 884.280 Rx 839.280
Channel 8 (497) Tx 884.910 Rx 839.910
Channel 9 (518) Tx 885.540 Rx 840.540
Channel 10 (539) Tx 886.170 Rx 841.170
Channel 11 (560) Tx 886.800 Rx 841.800
Channel 12 (581) Tx 887.430 Rx 842.430
Channel 13 (602) Tx 888.060 Rx 843.060
Channel 14 (623) Tx 888.690 Rx 843.690
Channel 15 (644) Tx 889.320 Rx 844.320

Channel 16 (665) Tx 889.950 Rx 844.950

Cell # 18

Channel 1 (351) Tx 880.530 Rx 835.530
Channel 2 (372) Tx 881.160 Rx 836.160
Channel 3 (393) Tx 881.790 Rx 836.790
Channel 4 (414) Tx 882.420 Rx 837.420
Channel 5 (435) Tx 883.050 Rx 838.050
Channel 6 (456) Tx 883.680 Rx 838.680
Channel 7 (477) Tx 884.310 Rx 839.310
Channel 8 (498) Tx 884.940 Rx 839.940
Channel 9 (519) Tx 885.570 Rx 840.570
Channel 10 (540) Tx 886.200 Rx 841.200
Channel 11 (561) Tx 886.830 Rx 841.830
Channel 12 (582) Tx 887.460 Rx 842.460
Channel 13 (603) Tx 888.090 Rx 843.090
Channel 14 (624) Tx 888.720 Rx 843.720
Channel 15 (645) Tx 889.350 Rx 844.350
Channel 16 (666) Tx 889.980 Rx 844.980

Cell # 19

Channel 1 (352) Tx 880.560 Rx 835.560
Channel 2 (373) Tx 881.190 Rx 836.190
Channel 3 (394) Tx 881.820 Rx 836.820
Channel 4 (415) Tx 882.450 Rx 837.450
Channel 5 (436) Tx 883.080 Rx 838.080
Channel 6 (457) Tx 883.710 Rx 838.710
Channel 7 (478) Tx 884.340 Rx 839.340
Channel 8 (499) Tx 884.970 Rx 839.970
Channel 9 (520) Tx 885.600 Rx 840.600

Channel 10 (541) Tx 886.230 Rx 841.230
Channel 11 (562) Tx 886.860 Rx 841.860
Channel 12 (583) Tx 887.490 Rx 842.490
Channel 13 (604) Tx 888.120 Rx 843.120
Channel 14 (625) Tx 888.750 Rx 843.750
Channel 15 (646) Tx 889.380 Rx 844.380

Cell # 20

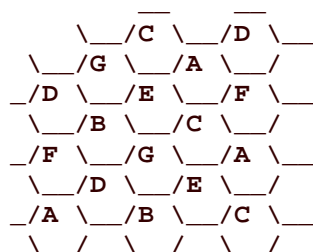
Channel 1 (353) Tx 880.590 Rx 835.590
Channel 2 (374) Tx 881.220 Rx 836.220
Channel 3 (395) Tx 881.850 Rx 836.850
Channel 4 (416) Tx 882.480 Rx 837.480
Channel 5 (437) Tx 883.110 Rx 838.110
Channel 6 (458) Tx 883.740 Rx 838.740
Channel 7 (479) Tx 884.370 Rx 839.370
Channel 8 (500) Tx 885.000 Rx 840.000
Channel 9 (521) Tx 885.630 Rx 840.630
Channel 10 (542) Tx 886.260 Rx 841.260
Channel 11 (563) Tx 886.890 Rx 841.890
Channel 12 (584) Tx 887.520 Rx 842.520
Channel 13 (605) Tx 888.150 Rx 843.150
Channel 14 (626) Tx 888.780 Rx 843.780
Channel 15 (647) Tx 889.410 Rx 844.410

Cell # 21

Channel 1 (354) Tx 880.620 Rx 835.620
Channel 2 (375) Tx 881.250 Rx 836.250
Channel 3 (396) Tx 881.880 Rx 836.880
Channel 4 (417) Tx 882.510 Rx 837.510
Channel 5 (438) Tx 883.140 Rx 838.140
Channel 6 (459) Tx 883.770 Rx 838.770
Channel 7 (480) Tx 884.400 Rx 839.400
Channel 8 (501) Tx 885.030 Rx 840.030

Channel 9 (522) Tx 885.660 Rx 840.660
 Channel 10 (543) Tx 886.290 Rx 841.290
 Channel 11 (564) Tx 886.920 Rx 841.920
 Channel 12 (585) Tx 887.550 Rx 842.550
 Channel 13 (606) Tx 888.180 Rx 843.180
 Channel 14 (627) Tx 888.810 Rx 843.810
 Channel 15 (648) Tx 889.440 Rx 844.440

Cellular System Sectorization and Site Design



This represents how a cellular system might be laid out. Cells A and B never share a common border. Neither do B and C, A and G, etc. Cells that are next to each other are never assigned adjacent frequencies. They always differ by at least 60 kiloHertz. To track a mobile phone as it changes cells, let's put the mobile in a B cell. When the mobile switches frequencies, you know that he could only go to an D, E, F or G cell because A and C have adjacent frequencies. The two tables below will help you determine which channel cells can go next to each other. You can contact your local cellular phone company and see if they have any maps of the cells available. This is not a sure thing, but it couldn't hurt to try.

Cells that can go next to each other:

| Cell | Compatible cells |
|------|------------------|
| A | C, D, E, F |
| B | D, E, F, G |
| C | E, F, G, A |
| D | F, G, A, B |
| E | G, A, B, C |
| F | A, B, C, D |
| G | B, C, D, E |

Shown below is a frequency/cell layout chart. The cell frequencies are used by the cell site towers, and the mobile frequencies are the input frequencies used by the cars.

Wireline company cell frequencies (BAND B)

CELL A CELL B CELL C CELL D CELL E CELL F CELL G

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|-----------|
| 889.890 | 889.920 | 889.950 | 889.980 | | | | |
| 889.680 | 889.710 | 889.740 | 889.770 | 889.800 | 889.830 | 889.860 | 3 |
| 889.470 | 889.500 | 889.530 | 889.560 | 889.590 | 889.620 | 889.650 | 3 |
| 889.260 | 889.290 | 889.320 | 889.350 | 889.380 | 889.410 | 889.440 | 3 |
| 889.050 | 889.080 | 889.110 | 889.140 | 889.170 | 889.200 | 889.230 | 3 |
| 888.840 | 888.870 | 888.900 | 888.930 | 888.960 | 888.990 | 889.020 | 3 |
| 888.630 | 888.660 | 888.690 | 888.720 | 888.750 | 888.780 | 888.810 | 3 |
| 888.420 | 888.450 | 888.480 | 888.510 | 888.540 | 888.570 | 888.600 | 3 |
| 888.210 | 888.240 | 888.270 | 888.300 | 888.330 | 888.360 | 888.390 | 3 |
| 888.000 | 888.030 | 888.060 | 888.090 | 888.120 | 888.150 | 888.180 | 3 |
| 887.790 | 887.820 | 887.850 | 887.880 | 887.910 | 887.940 | 887.970 | 3 |
| 887.580 | 887.610 | 887.640 | 887.670 | 887.700 | 887.730 | 887.760 | 3 |
| 887.370 | 887.400 | 887.430 | 887.460 | 887.490 | 887.520 | 887.550 | 3 |
| 887.160 | 887.190 | 887.220 | 887.250 | 887.280 | 887.310 | 887.340 | 3 |
| 886.950 | 886.980 | 887.010 | 887.040 | 887.070 | 887.100 | 887.130 | 3 |
| 886.740 | 886.770 | 886.800 | 886.830 | 886.860 | 886.890 | 886.920 | 3 |
| 886.530 | 886.560 | 886.590 | 886.620 | 886.650 | 886.680 | 886.710 | 3 |
| 886.320 | 886.350 | 886.380 | 886.410 | 886.440 | 886.470 | 886.500 | 3Voice |
| 886.110 | 886.140 | 886.170 | 886.200 | 886.230 | 886.260 | 886.290 | 3 |
| 885.900 | 885.930 | 885.960 | 885.990 | 886.020 | 886.050 | 886.080 | 3 |
| 885.690 | 885.720 | 885.750 | 885.780 | 885.810 | 885.840 | 885.870 | 3 |
| 885.480 | 885.510 | 885.540 | 885.570 | 885.600 | 885.630 | 885.660 | 3 |
| 885.270 | 885.300 | 885.330 | 885.360 | 885.390 | 885.420 | 885.450 | 3 |
| 885.060 | 885.090 | 885.120 | 885.150 | 885.180 | 885.210 | 885.240 | 3 |
| 884.850 | 884.880 | 884.910 | 884.940 | 884.970 | 885.000 | 885.030 | 3 |
| 884.640 | 884.670 | 884.700 | 884.730 | 884.760 | 884.790 | 884.820 | 3 |
| 884.430 | 884.460 | 884.490 | 884.520 | 884.550 | 884.580 | 884.610 | 3 |
| 884.220 | 884.250 | 884.280 | 884.310 | 884.340 | 884.370 | 884.400 | 3 |
| 884.010 | 884.040 | 884.070 | 884.100 | 884.130 | 884.160 | 884.190 | 3Channels |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|----|
| 883.800 | 883.830 | 883.860 | 883.890 | 883.920 | 883.950 | 883.980 | 3 |
| 883.590 | 883.620 | 883.650 | 883.680 | 883.710 | 883.740 | 883.770 | 3 |
| 883.380 | 883.410 | 883.440 | 883.470 | 883.500 | 883.530 | 883.560 | 3 |
| 883.170 | 883.200 | 883.230 | 883.260 | 883.290 | 883.320 | 883.350 | 3 |
| 882.960 | 882.990 | 883.020 | 883.050 | 883.080 | 883.110 | 883.140 | 3 |
| 882.750 | 882.780 | 882.810 | 882.840 | 882.870 | 882.900 | 882.930 | 3 |
| 882.540 | 882.570 | 882.600 | 882.630 | 882.660 | 882.690 | 882.720 | 3 |
| 882.330 | 882.360 | 882.390 | 882.420 | 882.450 | 882.480 | 882.510 | 3 |
| 882.120 | 882.150 | 882.180 | 882.210 | 882.240 | 882.270 | 882.300 | 3 |
| 881.910 | 881.940 | 881.970 | 882.000 | 882.030 | 882.060 | 882.090 | 3 |
| 881.700 | 881.730 | 881.760 | 881.790 | 881.820 | 881.850 | 881.880 | 3 |
| 881.490 | 881.520 | 881.550 | 881.580 | 881.610 | 881.640 | 881.670 | 3 |
| 881.280 | 881.310 | 881.340 | 881.370 | 881.400 | 881.430 | 881.460 | 3 |
| 881.070 | 881.100 | 881.130 | 881.160 | 881.190 | 881.220 | 881.250 | 3 |
| 880.860 | 880.890 | 880.920 | 880.950 | 880.980 | 881.010 | 881.040 | 3 |
| 880.650 | 880.680 | 880.710 | 880.740 | 880.770 | 880.800 | 880.830 | DY |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|-----------------|
| 880.440 | 880.470 | 880.500 | 880.530 | 880.560 | 880.590 | 880.620 | D=Digital |
| 880.230 | 880.260 | 880.290 | 880.320 | 880.350 | 880.380 | 880.410 | 3=Setup/Control |
| 880.020 | 880.050 | 880.080 | 880.110 | 880.140 | 880.170 | 880.200 | DYChannels |

Wireline company mobile frequencies (BAND B)

| CELL A | CELL B | CELL C | CELL D | CELL E | CELL F | CELL G |
|---------|---------|---------|---------|---------|---------|-----------|
| 844.890 | 844.920 | 844.950 | 844.980 | | | |
| 844.680 | 844.710 | 844.740 | 844.770 | 844.800 | 844.830 | 844.860 3 |
| 844.470 | 844.500 | 844.530 | 844.560 | 844.590 | 844.620 | 844.650 3 |
| 844.260 | 844.290 | 844.320 | 844.350 | 844.380 | 844.410 | 844.440 3 |
| 844.050 | 844.080 | 844.110 | 844.140 | 844.170 | 844.200 | 844.230 3 |
| 843.840 | 843.870 | 843.900 | 843.930 | 843.960 | 843.990 | 844.020 3 |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|-----------|
| 843.630 | 843.660 | 843.690 | 843.720 | 843.750 | 843.780 | 843.810 | 3 |
| 843.420 | 843.450 | 843.480 | 843.510 | 843.540 | 843.570 | 843.600 | 3 |
| 843.210 | 843.240 | 843.270 | 843.300 | 843.330 | 843.360 | 843.390 | 3 |
| 843.000 | 843.030 | 843.060 | 843.090 | 843.120 | 843.150 | 843.180 | 3 |
| 842.790 | 842.820 | 842.850 | 842.880 | 842.910 | 842.940 | 842.970 | 3 |
| 842.580 | 842.610 | 842.640 | 842.670 | 842.700 | 842.730 | 842.760 | 3 |
| 842.370 | 842.400 | 842.430 | 842.460 | 842.490 | 842.520 | 842.550 | 3 |
| 842.160 | 842.190 | 842.220 | 842.250 | 842.280 | 842.310 | 842.340 | 3 |
| 841.950 | 841.980 | 842.010 | 842.040 | 842.070 | 842.100 | 842.130 | 3 |
| 841.740 | 841.770 | 841.800 | 841.830 | 841.860 | 841.890 | 841.920 | 3 |
| 841.530 | 841.560 | 841.590 | 841.620 | 841.650 | 841.680 | 841.710 | 3 |
| 841.320 | 841.350 | 841.380 | 841.410 | 841.440 | 841.470 | 841.500 | 3Voice |
| 841.110 | 841.140 | 841.170 | 841.200 | 841.230 | 841.260 | 841.290 | 3 |
| 840.900 | 840.930 | 840.960 | 840.990 | 841.020 | 841.050 | 841.080 | 3 |
| 840.690 | 840.720 | 840.750 | 840.780 | 840.810 | 840.840 | 840.870 | 3 |
| 840.480 | 840.510 | 840.540 | 840.570 | 840.600 | 840.630 | 840.660 | 3 |
| 840.270 | 840.300 | 840.330 | 840.360 | 840.390 | 840.420 | 840.450 | 3 |
| 840.060 | 840.090 | 840.120 | 840.150 | 840.180 | 840.210 | 840.240 | 3 |
| 839.850 | 839.880 | 839.910 | 839.940 | 839.970 | 840.000 | 840.030 | 3 |
| 839.640 | 839.670 | 839.700 | 839.730 | 839.760 | 839.790 | 839.820 | 3 |
| 839.430 | 839.460 | 839.490 | 839.520 | 839.550 | 839.580 | 839.610 | 3 |
| 839.220 | 839.250 | 839.280 | 839.310 | 839.340 | 839.370 | 839.400 | 3 |
| 839.010 | 839.040 | 839.070 | 839.100 | 839.130 | 839.160 | 839.190 | 3Channels |
| 838.800 | 838.830 | 838.860 | 838.890 | 838.920 | 838.950 | 838.980 | 3 |
| 838.590 | 838.620 | 838.650 | 838.680 | 838.710 | 838.740 | 838.770 | 3 |
| 838.380 | 838.410 | 838.440 | 838.470 | 838.500 | 838.530 | 838.560 | 3 |
| 838.170 | 838.200 | 838.230 | 838.260 | 838.290 | 838.320 | 838.350 | 3 |
| 837.960 | 837.990 | 838.020 | 838.050 | 838.080 | 838.110 | 838.140 | 3 |
| 837.750 | 837.780 | 837.810 | 837.840 | 837.870 | 837.900 | 837.930 | 3 |
| 837.540 | 837.570 | 837.600 | 837.630 | 837.660 | 837.690 | 837.720 | 3 |
| 837.330 | 837.360 | 837.390 | 837.420 | 837.450 | 837.480 | 837.510 | 3 |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|------------|
| 837.120 | 837.150 | 837.180 | 837.210 | 837.240 | 837.270 | 837.300 | 3 |
| 836.910 | 836.940 | 836.970 | 837.000 | 837.030 | 837.060 | 837.090 | 3 |
| 836.700 | 836.730 | 836.760 | 836.790 | 836.820 | 836.850 | 836.880 | 3 |
| 836.490 | 836.520 | 836.550 | 836.580 | 836.610 | 836.640 | 836.670 | 3 |
| 836.280 | 836.310 | 836.340 | 836.370 | 836.400 | 836.430 | 836.460 | 3 |
| 836.070 | 836.100 | 836.130 | 836.160 | 836.190 | 836.220 | 836.250 | 3 |
| 835.860 | 835.890 | 835.920 | 835.950 | 835.980 | 836.010 | 836.040 | 3 |
| 835.650 | 835.680 | 835.710 | 835.740 | 835.770 | 835.800 | 835.830 | DY |
| ----- | | | | | | | |
| 835.440 | 835.470 | 835.500 | 835.530 | 835.560 | 835.590 | 835.620 | D=Digital |
| 835.230 | 835.260 | 835.290 | 835.320 | 835.350 | 835.380 | 835.410 | 3Control |
| 835.020 | 835.050 | 835.080 | 835.110 | 835.140 | 835.170 | 835.200 | DYChannels |

Non-wireline company cell frequencies (BAND A)

| CELL A | CELL B | CELL C | CELL D | CELL E | CELL F | CELL G | |
|---------|---------|---------|---------|---------|---------|---------|-----------|
| 879.900 | 879.930 | 879.960 | 879.990 | | | | D=Digital |
| 879.690 | 879.720 | 879.750 | 879.780 | 879.810 | 879.840 | 879.870 | 3Control |
| 879.480 | 879.510 | 879.540 | 879.570 | 879.600 | 879.630 | 879.660 | 3Channels |
| ----- | | | | 879.390 | 879.420 | 879.450 | DY |
| 879.270 | 879.300 | 879.330 | 879.360 | ----- | | | D= |
| 879.060 | 879.090 | 879.120 | 879.150 | 879.180 | 879.210 | 879.240 | 3 |
| 878.850 | 878.880 | 878.910 | 878.940 | 878.970 | 879.000 | 879.030 | 3 |
| 878.640 | 878.670 | 878.700 | 878.730 | 878.760 | 878.790 | 878.820 | 3 |
| 878.430 | 878.460 | 878.490 | 878.520 | 878.550 | 878.580 | 878.610 | 3 |
| 878.220 | 878.250 | 878.280 | 878.310 | 878.340 | 878.370 | 878.400 | 3 |
| 878.010 | 878.040 | 878.070 | 878.100 | 878.130 | 878.160 | 878.190 | 3 |
| 877.800 | 877.830 | 877.860 | 877.890 | 877.920 | 877.950 | 877.980 | 3 |
| 877.590 | 877.620 | 877.650 | 877.680 | 877.710 | 877.740 | 877.770 | 3 |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|------------|
| 877.380 | 877.410 | 877.440 | 877.470 | 877.500 | 877.530 | 877.560 | 3 |
| 877.170 | 877.200 | 877.230 | 877.260 | 877.290 | 877.320 | 877.350 | 3 |
| 876.960 | 876.990 | 877.020 | 877.050 | 877.080 | 877.110 | 877.140 | 3 |
| 876.750 | 876.780 | 876.810 | 876.840 | 876.870 | 876.900 | 876.930 | 3 |
| 876.540 | 876.570 | 876.600 | 876.630 | 876.660 | 876.690 | 876.720 | 3 |
| 876.330 | 876.360 | 876.390 | 876.420 | 876.450 | 876.480 | 876.510 | 3 |
| 876.120 | 876.150 | 876.180 | 876.210 | 876.240 | 876.270 | 876.300 | 3 |
| 875.910 | 875.940 | 875.970 | 876.000 | 876.030 | 876.060 | 876.090 | 3 |
| 875.700 | 875.730 | 875.760 | 875.790 | 875.820 | 875.850 | 875.880 | 3 Voice |
| 875.490 | 875.520 | 875.550 | 875.580 | 875.610 | 875.640 | 875.670 | 3 |
| 875.280 | 875.310 | 875.340 | 875.370 | 875.400 | 875.430 | 875.460 | 3 |
| 875.070 | 875.100 | 875.130 | 875.160 | 875.190 | 875.220 | 875.250 | 3 |
| 874.860 | 874.890 | 874.920 | 874.950 | 874.980 | 875.010 | 875.040 | 3 |
| 874.650 | 874.680 | 874.710 | 874.740 | 874.770 | 874.800 | 874.830 | 3 |
| 874.440 | 874.470 | 874.500 | 874.530 | 874.560 | 874.590 | 874.620 | 3 |
| 874.230 | 874.260 | 874.290 | 874.320 | 874.350 | 874.380 | 874.410 | 3 |
| 874.020 | 874.050 | 874.080 | 874.110 | 874.140 | 874.170 | 874.200 | 3 |
| 873.810 | 873.840 | 873.870 | 873.900 | 873.930 | 873.960 | 873.990 | 3 |
| 873.600 | 873.630 | 873.660 | 873.690 | 873.720 | 873.750 | 873.780 | 3 |
| 873.390 | 873.420 | 873.450 | 873.480 | 873.510 | 873.540 | 873.570 | 3 Channels |
| 873.180 | 873.210 | 873.240 | 873.270 | 873.300 | 873.330 | 873.360 | 3 |
| 872.970 | 873.000 | 873.030 | 873.060 | 873.090 | 873.120 | 873.150 | 3 |
| 872.760 | 872.790 | 872.820 | 872.850 | 872.880 | 872.910 | 872.940 | 3 |
| 872.550 | 872.580 | 872.610 | 872.640 | 872.670 | 872.700 | 872.730 | 3 |
| 872.340 | 872.370 | 872.400 | 872.430 | 872.460 | 872.490 | 872.520 | 3 |
| 872.130 | 872.160 | 872.190 | 872.220 | 872.250 | 872.280 | 872.310 | 3 |
| 871.920 | 871.950 | 871.980 | 872.010 | 872.040 | 872.070 | 872.100 | 3 |
| 871.710 | 871.740 | 871.770 | 871.800 | 871.830 | 871.860 | 871.890 | 3 |
| 871.500 | 871.530 | 871.560 | 871.590 | 871.620 | 871.650 | 871.680 | 3 |
| 871.290 | 871.320 | 871.350 | 871.380 | 871.410 | 871.440 | 871.470 | 3 |
| 871.080 | 871.110 | 871.140 | 871.170 | 871.200 | 871.230 | 871.260 | 3 |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|----|
| 870.870 | 870.900 | 870.930 | 870.960 | 870.990 | 871.020 | 871.050 | 3 |
| 870.660 | 870.690 | 870.720 | 870.750 | 870.780 | 870.810 | 870.840 | 3 |
| 870.450 | 870.480 | 870.510 | 870.540 | 870.570 | 870.600 | 870.630 | 3 |
| 870.240 | 870.270 | 870.300 | 870.330 | 870.360 | 870.390 | 870.420 | 3 |
| 870.030 | 870.060 | 870.090 | 870.120 | 870.150 | 870.180 | 870.210 | DY |

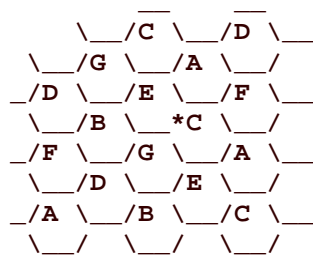
Non-wireline company mobile frequencies (BAND A)

| CELL A | CELL B | CELL C | CELL D | CELL E | CELL F | CELL G | |
|---------|---------|---------|---------|---------|---------|---------|-----------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| 834.900 | 834.930 | 834.960 | 834.990 | | | | D=Digital |
| 834.690 | 834.720 | 834.750 | 834.780 | 834.810 | 834.840 | 834.870 | 3Control |
| 834.480 | 834.510 | 834.540 | 834.570 | 834.600 | 834.630 | 834.660 | 3Channels |
| ----- | ----- | ----- | ----- | 834.390 | 834.420 | 834.450 | DY |
| 834.270 | 834.300 | 834.330 | 834.360 | ----- | ----- | ----- | D= |
| 834.060 | 834.090 | 834.120 | 834.150 | 834.180 | 834.210 | 834.240 | 3 |
| 833.850 | 833.880 | 833.910 | 833.940 | 833.970 | 834.000 | 834.030 | 3 |
| 833.640 | 833.670 | 833.700 | 833.730 | 833.760 | 833.790 | 833.820 | 3 |
| 833.430 | 833.460 | 833.490 | 833.520 | 833.550 | 833.580 | 833.610 | 3 |
| 833.220 | 833.250 | 833.280 | 833.310 | 833.340 | 833.370 | 833.400 | 3 |
| 833.010 | 833.040 | 833.070 | 833.100 | 833.130 | 833.160 | 833.190 | 3 |
| 832.800 | 832.830 | 832.860 | 832.890 | 832.920 | 832.950 | 832.980 | 3 |
| 832.590 | 832.620 | 832.650 | 832.680 | 832.710 | 832.740 | 832.770 | 3 |
| 832.380 | 832.410 | 832.440 | 832.470 | 832.500 | 832.530 | 832.560 | 3 |
| 832.170 | 832.200 | 832.230 | 832.260 | 832.290 | 832.320 | 832.350 | 3 |
| 831.960 | 831.990 | 832.020 | 832.050 | 832.080 | 832.110 | 832.140 | 3 |
| 831.750 | 831.780 | 831.810 | 831.840 | 831.870 | 831.900 | 831.930 | 3 |
| 831.540 | 831.570 | 831.600 | 831.630 | 831.660 | 831.690 | 831.720 | 3 |
| 831.330 | 831.360 | 831.390 | 831.420 | 831.450 | 831.480 | 831.510 | 3 |
| 831.120 | 831.150 | 831.180 | 831.210 | 831.240 | 831.270 | 831.300 | 3 |
| 830.910 | 830.940 | 830.970 | 831.000 | 831.030 | 831.060 | 831.090 | 3 |
| 830.700 | 830.730 | 830.760 | 830.790 | 830.820 | 830.850 | 830.880 | 3 Voice |

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|------------|
| 830.490 | 830.520 | 830.550 | 830.580 | 830.610 | 830.640 | 830.670 | 3 |
| 830.280 | 830.310 | 830.340 | 830.370 | 830.400 | 830.430 | 830.460 | 3 |
| 830.070 | 830.100 | 830.130 | 830.160 | 830.190 | 830.220 | 830.250 | 3 |
| 829.860 | 829.890 | 829.920 | 829.950 | 829.980 | 830.010 | 830.040 | 3 |
| 829.650 | 829.680 | 829.710 | 829.740 | 829.770 | 829.800 | 829.830 | 3 |
| 829.440 | 829.470 | 829.500 | 829.530 | 829.560 | 829.590 | 829.620 | 3 |
| 829.230 | 829.260 | 829.290 | 829.320 | 829.350 | 829.380 | 829.410 | 3 |
| 829.020 | 829.050 | 829.080 | 829.110 | 829.140 | 829.170 | 829.200 | 3 |
| 828.810 | 828.840 | 828.870 | 828.900 | 828.930 | 828.960 | 828.990 | 3 |
| 828.600 | 828.630 | 828.660 | 828.690 | 828.720 | 828.750 | 828.780 | 3 |
| 828.390 | 828.420 | 828.450 | 828.480 | 828.510 | 828.540 | 828.570 | 3 Channels |
| 828.180 | 828.210 | 828.240 | 828.270 | 828.300 | 828.330 | 828.360 | 3 |
| 827.970 | 828.000 | 828.030 | 828.060 | 828.090 | 828.120 | 828.150 | 3 |
| 827.760 | 827.790 | 827.820 | 827.850 | 827.880 | 827.910 | 827.940 | 3 |
| 827.550 | 827.580 | 827.610 | 827.640 | 827.670 | 827.700 | 827.730 | 3 |
| 827.340 | 827.370 | 827.400 | 827.430 | 827.460 | 827.490 | 827.520 | 3 |
| 827.130 | 827.160 | 827.190 | 827.220 | 827.250 | 827.280 | 827.310 | 3 |
| 826.920 | 826.950 | 826.980 | 827.010 | 827.040 | 827.070 | 827.100 | 3 |
| 826.710 | 826.740 | 826.770 | 826.800 | 826.830 | 826.860 | 826.890 | 3 |
| 826.500 | 826.530 | 826.560 | 826.590 | 826.620 | 826.650 | 826.680 | 3 |
| 826.290 | 826.320 | 826.350 | 826.380 | 826.410 | 826.440 | 826.470 | 3 |
| 826.080 | 826.110 | 826.140 | 826.170 | 826.200 | 826.230 | 826.260 | 3 |
| 825.870 | 825.900 | 825.930 | 825.960 | 825.990 | 826.020 | 826.050 | 3 |
| 825.660 | 825.690 | 825.720 | 825.750 | 825.780 | 825.810 | 825.840 | 3 |
| 825.450 | 825.480 | 825.510 | 825.540 | 825.570 | 825.600 | 825.630 | 3 |
| 825.240 | 825.270 | 825.300 | 825.330 | 825.360 | 825.390 | 825.420 | 3 |
| 825.030 | 825.060 | 825.090 | 825.120 | 825.150 | 825.180 | 825.210 | DY |

Monitoring of the base sites is obviously going to be easier than monitoring the mobiles. The cell base sites are towers (usually blue) with a triangle shaped "head" on top, and sporting a couple of what appear to be

vertical antennas. These base sites have a range of 7 to 9 miles. If you take a look at the honeycomb diagram, you can see how they are laid out. The cell transmitter is in the middle of the cell. It is possible to hear many, most, or all of the cells in your city, depending on your location. The closer you live to a boundary, the greater the chances of your being able to receive more cells. Due to the nature of radio signals, the actual cell shape is more or less round. However, the hexagon shape lends itself better to show how the system is laid out. With a circular coverage area, there will be some overlapping between adjacent cells.



If, for example, you live near the asterisk (*) in the above diagram, you will be able to easily hear the G, C, E, and A cells you're near. Since the maximum practical range of a cell is 7 to 9 miles, you'll be able to hear them a bit farther away. Due to the nature of FM transceivers at the cell sites, you should be able to hear all seven cells. Which one of each cell you hear will depend on your location and the strength of the received signal. In the above diagram, you'll most likely hear the F cell in the upper right, rather than the one on the left.

Mobile reception is almost a waste of time unless you have an outdoor antenna. And, since the mobile will be repeated on the cell site, it's better to listen to the cell frequencies. You may not be able to hear both sides of the conversation if you listen only to the mobile frequencies!!! It is useful, however, for determining which channel cell you're in. If you use the antenna that came with the scanner, mobile range will be decreased down to 1 or 2 miles. By checking the scanner readout against the cell list above (825.030-844.980 MHz), you can tell what cell the mobile is in. This is also

useful on the cell site frequencies. If you hear someone say, "I'm at the corner of highway FF and 37," and you know where the cell site antenna is in that area, you can check the frequency listing above and determine what cell that antenna belongs to.

FREQUENCY ALLOCATIONS FOR THE 806-960 MHz BAND

| Frequency MHz | Service | When Allocated | Paired With | Channel Spacing-kHz |
|------------------|---------------------------------|-------------------|----------------|------------------------|
| 806-821 m | Private Land Mobile | 1975 | 851-866 b | 25 |
| 821-824 m | Private Land Mobile Pub. Safety | 1986 | 866-869 b | ?? |
| 824-825 m | Public Cellular Non-Wireline | 1986 | 869-870 b | 30 |
| 825-835 m | Public Cellular Non-Wireline | 1975 | 870-880 b | 30 |
| 835-845 m | Public Cellular Wireline | 1975 | 880-890 b | 30 |
| 845-846.5m | Public Cellular Non-Wireline | 1986 | 890-891.5b | 30 |
| 846.5-849m | Public Cellular Wireline | 1986 | 891.5-894b | 30 |
| 849-851 | Temporary Reserve | 1986 | 894-896 | |
| 851-866 b | Private Land Mobile | 1975 | 806-821 m | 25 |
| 866-869 b | Private Land Mobile Pub. Safety | 1986 | 821-824 m | ?? |
| 869-870 b | Public Cellular Non-Wireline | 1986 | 824-825 m | 30 |
| 870-880 b | Public Cellular Non-Wireline | 1975 | 825-835 m | 30 |
| 880-890 b | Public Cellular Wireline | 1975 | 835-845 m | 30 |
| 890-891.5b | Public Cellular Non-Wireline | 1986 | 845-846.5m | 30 |
| 891.5-894b | Public Cellular Wireline | 1986 | 846.5-849m | 30 |

| | | | | |
|-----------|--------------------------------|------|-----------|------------|
| 894-896 | Temporary Reserve | 1986 | 849-851 | |
| 896-901 m | Private Land Mobile Non-PubSaf | 1986 | 935-940 b | 12.5 |
| 901-902 | General Purpose Mobile | 1986 | 940-941 | ?? |
| 902-928 | Amateur & ISM | | | |
| 928-929 | Fixed Multiple Address | | 952-953 | 25 |
| 929-930 | Private Paging | 1982 | | 25 |
| 930-931 | Paging Reserve | 1982 | | |
| 931-932 | Public Common Carrier Paging | 1982 | | 25 |
| 932-935 | Fixed Point-to-Point | 1985 | 941-944 | ?? |
| 935-940 b | Private Land Mobile Non-PubSaf | 1986 | 896-901 m | 12.5 |
| 940-941 | General Purpose Mobile | 1986 | 901-902 | ?? |
| 941-944 | Fixed Point-to-Point | 1985 | 932-935 | ?? |
| 944-952 | Broadcast Aural STL | | | 25- 300 |
| 952-953 | Fixed Multiple Address | | 928-929 | 25 |
| 953-960 | Fixed Multiple Address | | | 50,100,200 |

b: base station

m: mobile

For the 800 - 1300 MHz RF spectrum

| FREQUENCY BAND | SERVICE |
|-------------------|---|
| 806-810 | BUSINESS RADIO SERVICE CONVENTIONAL SYSTEMS MOBILE IN |
| 810-816 | PUBLIC SAFETY RADIO SERVICE SLOW GROWTH SYSTEMS MOBILE IN |
| 816-821 | BUSINESS RADIO SERVICE SMR TRUNKED SYSTEMS MOBILE IN |
| 821-825 | LAND MOBILE SATELLITE SERVICE MOBILE IN |
| 825-835 | CELLULAR MOBILE TELEPHONES NONWIRELINE SYSTEMS MOBILE IN |
| 835-845 | CELLULAR MOBILE TELEPHONES WIRELINE SYSTEMS MOBILE IN |
| 845-850 | CELLULAR MOBILE TELEPHONES EXPANSION RESERVE MOBILE IN |
| 850-851 | RESERVED |
| 851-855 | * BUSINESS RADIO SERVICE CONVENTIONAL SYSTEMS BASE OUT |
| 855-861 | * PUBLIC SAVETY RADIO SERVICE SLOW GROWTH SYSTEMS BASE OUT |
| 861-866 | * BUSINESS RADIO SERVICE TRUNKED SYSTEMS BASE OUT |
| 866-870 | * LAND MOBILE SATELLITE SERVICE OUTPUT |
| 870-890 | * CELLULAR MOBILE TELEPHONES NONWIRELINE SYSTEMS BASE OUT |
| 890-896 | * CELLULAR MOBILE TELEPHONES WIRELINE SYSTEMS BASE OUT |
| 896-902 | PRIVATE LAND MOBILE RADIO SERVICE PS I T BLOCKS MOBILE IN |
| 902-928 | AMATEUR RADIO SERVICE RESERVE |
| 928.0125-928.3375 | DOMESTIC PUBLIC RADIO SERVICE PRIVATE MULTI-ADDRESS SYSTEMS |
| 928.3625-928.8375 | DOMESTIC PUBLIC RADIO SERVICE RESERVED |
| 928.8625-928.9875 | DOMESTIC PUBLIC RADIO SERVICE WIDE AREA PAGING |
| 929.0125-929.7375 | DOMESTIC PUBLIC RADIO SERVICE RESERVED |
| 929.7625-929.9875 | DOMESTIC PUBLIC RADIO SERVICE RADIOTELEPHONE UTILITY PAGING |
| 930-931 | DOMESTIC PUBLIC RADIO SERVICE ADVANCED TECHNOLOGY PAGING |
| 931-932 | DOMESTIC PUBLIC RADIO SERVICE COMMON CARRIER PAGING |
| 932-935 | GOVERNMENT PRIVATE SHARED OPERATIONAL FIXED SYSTEMS |
| 935-941 | * PRIVATE LAND MOBILE RADIO SERVICE PS I T BLOCKS BASE OUT |

941-944 GOVERNMENT PRIVATE SHARED OPERATIONAL FIXED SYSTEMS

944-947 BROADCAST RADIO SERVICE STUDIO-TRANSMITTER LINK
(INTERCITY RELAY)

947-952 BROADCAST RADIO SERVICE FORMERLY STL IR

952.100-952.700 PRIVATE MICROWAVE SERVICE OMNIDIRECTIONAL CONTROL

952.800-956.100 PRIVATE MICROWAVE SERVICE OPERATIONAL FIXED SYSTEMS

956.2625-956.4375 PRIVATE FIXED SERVICE SIGNALLING AND CONTROL

956.500-959.800 PRIVATE MICROWAVE SERVICE OPERATIONAL FIXED SYSTEMS

959.8625-959.9875 COMMON CARRIER RADIO SERVICE WIDE AREA PAGING

960-1215 AVIATION SERVICES NAVAIDS DME

1215-1300 AMATEUR RADIO SERVICE SOME REPEATERS IN SERVICE

25 KHZ CHANNEL SPACING (65 MILES NORTH OF MEXICAN BORDER)

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| .0125 | .0375 | .0625 | .0875 | .1125 | .1375 | .1625 | .1875 |
| .2125 | .2375 | .2625 | .2875 | .3125 | .3375 | .3625 | .3875 |
| .4125 | .4375 | .4625 | .4875 | .5125 | .5375 | .5625 | .5875 |
| .6125 | .6375 | .6625 | .6875 | .7125 | .7375 | .7625 | .7875 |
| .8125 | .8375 | .8625 | .8875 | .9125 | .9375 | .9625 | .9875 |

12.5 KHZ CHANNEL SPACING (AS PROPOSED FOR FUTURE USE)

| | | | | | | | |
|-------|-------|-------|-------|-------|--------|-------|-------|
| .0000 | .0125 | .0250 | .0375 | .0500 | .0625 | .0750 | .0875 |
| .1000 | .1125 | .1250 | .1375 | .1500 | .1625 | .1750 | .1875 |
| .2000 | .2125 | .2250 | .2375 | .2500 | .2625 | .2750 | .2875 |
| .3000 | .3125 | .3250 | .3375 | .3500 | .3625 | .3750 | .3875 |
| .4000 | .4125 | .4250 | .4375 | .4500 | .4625 | .4750 | .4875 |
| .5000 | .5125 | .5250 | .5375 | .5500 | >.5625 | .5750 | .5875 |
| .6000 | .6125 | .6250 | .6375 | .6500 | .6625 | .6750 | .6875 |
| .7000 | .7125 | .7250 | .7375 | .7500 | .7625 | .7750 | .7875 |
| .8000 | .8125 | .8250 | .8375 | .8500 | .8625 | .8750 | .8875 |
| .9000 | .9125 | .9250 | .9375 | .9500 | .9625 | .9750 | .9875 |

MEXICAN BORDER CHANNEL SPACING (INCLUDES SAN CLEMENTE & TUCSON)

| | | | |
|-------|-------|-------|-------|
| .0000 | .0250 | .0500 | .0750 |
| .1000 | .1250 | .1500 | .1750 |
| .2000 | .2250 | .2500 | .2750 |
| .3000 | .3250 | .3500 | .3750 |
| .4000 | .4250 | .4500 | .4750 |
| .5000 | .5250 | .5500 | .5750 |
| .6000 | .6250 | .6500 | .6750 |
| .7000 | .7250 | .7500 | .7750 |
| .8000 | .8250 | .8500 | .8750 |
| .9000 | .9250 | .9500 | .9750 |

CELLULAR MOBILE TELEPHONES - BASE OUTPUT FREQUENCY

870 - 880 333 NONWIRELINE CHANNELS (RADIOTELEPHONE UTILITIES)

880 - 890 333 WIRELINE CHANNLES (TELEPHONE COMPANIES)

33 CHANNELS/MHZ

NON WIRELINE BLOCKS

WIRELINE BLOCKS

 CHN FREQ
 1 870.030
 34 871.020
 67 872.010
 101 873.030
 134 874.020
 167 875.010
 201 876.030
 234 877.020
 267 878.010
 301 879.030

 CHN FREQ
 334 880.020
 367 881.010
 401 882.030
 434 883.020
 467 884.010
 501 885.030
 534 886.020
 567 887.010
 601 888.030
 634 889.020

30 KHZ CHANNEL SPACING

 870 873 876 879 882 885 888 MHZ

 .030 .060 .090 .120 .150 .180 .210 .240 .270 .300
 .330 .360 .390 .420 .450 .480 .510 .540 .570 .600
 .630 .660 .690 .720 .750 .780 .810 .840 .870 .900
 .930 .960 .990

871 874 877 880 883 886 889 MHZ

 .020 .050 .080 .110 .140 .170 .200 .230 .260 .290
 .320 .350 .380 .410 .440 .470 .500 .530 .560 .590
 .620 .650 .680 .710 .740 .770 .800 .830 .860 .890
 .920 .950 .980

872 875 878 881 884 887 MHZ

 .010 .040 .070 .100 .130 .160 .190 .220 .250 .280
 .310 .340 .370 .400 .430 .460 .490 .520 .550 .580
 .610 .640 .670 .700 .730 .760 .790 .820 .850 .880
 .910 .940 .970

900 MHZ TELEPHONE FREQUENCY'S

900 MHZ CORDLESS TELEPHONE FREQUENCIES - - 902 - 928 MHZ NFM

| CH | BASE | HANDSET | CH | BASE | HANDSET | CH | BASE | HANDSET |
|----|---------|---------|----|---------|---------|----|---------|---------|
| -- | ----- | ----- | -- | ----- | ----- | -- | ----- | ----- |
| 01 | 902.100 | 926.100 | 11 | 902.400 | 926.400 | 21 | 902.700 | 926.700 |
| 02 | 902.130 | 926.130 | 12 | 902.430 | 926.430 | 22 | 902.730 | 926.730 |
| 03 | 902.160 | 926.160 | 13 | 902.460 | 926.460 | 23 | 902.760 | 926.760 |
| 04 | 902.490 | 926.490 | 14 | 902.490 | 926.490 | 24 | 902.790 | 926.790 |
| 05 | 902.220 | 926.220 | 15 | 902.520 | 926.520 | 25 | 902.820 | 926.820 |
| 06 | 902.250 | 926.250 | 16 | 902.550 | 926.550 | 26 | 902.850 | 926.850 |
| 07 | 902.280 | 926.280 | 17 | 902.580 | 926.580 | 27 | 902.880 | 926.880 |
| 08 | 902.310 | 926.310 | 18 | 902.610 | 926.610 | 28 | 902.910 | 926.910 |
| 09 | 902.340 | 926.340 | 19 | 902.640 | 926.640 | 29 | 902.940 | 926.940 |
| 10 | 902.370 | 926.370 | 20 | 902.670 | 926.670 | 30 | 902.970 | 926.970 |
| -- | ----- | ----- | -- | ----- | ----- | -- | ----- | ----- |
| CH | BASE | HANDSET | CH | BASE | HANDSET | CH | BASE | HANDSET |
| -- | ----- | ----- | -- | ----- | ----- | -- | ----- | ----- |
| 31 | 903.000 | 927.000 | 41 | 903.300 | 927.300 | 51 | 903.600 | 927.600 |
| 32 | 903.030 | 927.030 | 42 | 903.330 | 927.330 | 52 | 903.630 | 927.630 |
| 33 | 903.060 | 927.060 | 43 | 903.360 | 927.360 | 53 | 903.660 | 927.660 |
| 34 | 903.090 | 927.090 | 44 | 903.390 | 927.390 | 54 | 903.690 | 927.690 |
| 35 | 903.120 | 927.120 | 45 | 903.420 | 927.420 | 55 | 903.720 | 927.720 |
| 36 | 903.150 | 927.150 | 46 | 903.450 | 927.450 | 56 | 903.750 | 927.750 |
| 37 | 927.180 | 927.180 | 47 | 903.480 | 927.480 | 57 | 903.780 | 927.780 |
| 38 | 903.210 | 927.210 | 48 | 903.510 | 927.510 | 58 | 903.810 | 927.810 |
| 39 | 903.240 | 927.240 | 49 | 903.540 | 927.540 | 59 | 903.840 | 927.840 |
| 40 | 903.270 | 927.270 | 50 | 903.570 | 927.570 | 60 | 903.870 | 927.870 |

WEFAX FREQUENCY'S AND STATION'S

| STATION | FREQ. | CALL | LOCATION | MODE | DD | MM | YY | GMT |
|-------------------------|--------|-------|----------|------|----|----|----|------|
| METEO RN | 2.3740 | GYA | UK | FAX | 2 | 4 | 95 | 715 |
| BRACKNELL METEO | 2.6185 | GFE25 | UK | FAX | 6 | 4 | 95 | 2031 |
| USN CUTLER METEO 00-12Z | 3.3570 | NAA | USA | FAX | 7 | 5 | 95 | 344 |
| KIEV METEO | 3.3600 | RPN71 | RUSSIA | FAX | 5 | 5 | 95 | 2208 |
| ANKARA WEFAX | 3.3770 | YMA20 | TURKEY | FAX | 17 | 10 | 95 | 2004 |
| METEO RN | 3.6520 | GYA | UK | FAX | 12 | 4 | 95 | 446 |
| MINSK METEO | 3.8100 | RST75 | BELARUS | FAX | 17 | 10 | 95 | 1723 |
| HAMBURG METEO | 3.8550 | DDH 3 | GERMANY | FAX | 2 | 4 | 95 | 735 |
| HALIFAX METEO | 4.2710 | CFH | CANADA | FAX | 18 | 4 | 95 | 451 |
| METEO RN | 4.3070 | GYA | UK | FAX | 12 | 5 | 95 | 1137 |
| CAIRO WEFAX | 4.5260 | SUU36 | EGYPT | FAX | 4 | 4 | 95 | 2007 |
| ANKARA WEFAX | 4.5600 | YMA35 | TURKEY | FAX | 11 | 4 | 95 | 440 |

| | | | | | |
|--------------------------|--------|-------|------------|--------|-----------|
| BRACKNELL METEO | 4.6100 | GFA22 | UK | FAX 30 | 3 95 1400 |
| USN ROTA 1800-0600 | 4.6230 | AOK | SPAIN | FAX 2 | 4 95 2050 |
| ROME METEO | 4.7775 | IMB31 | ITALY | FAX 14 | 4 95 1736 |
| PEARL HARBOR, HI. 24H | 4.8550 | NPM | USA | FAX 15 | 4 95 636 |
| CANBERRA METEO | 5.1000 | AXM32 | AUSTRALIA | FAX 18 | 7 95 1817 |
| MOSCOW METEO | 5.1500 | RVO73 | RUSSIA | FAX 10 | 4 95 1835 |
| TASHKENT 2 METEO | 5.2850 | RBX71 | UZBEKISTAN | FAX 11 | 4 95 447 |
| MOSCOW METEO | 5.3250 | RND79 | RUSSIA | FAX 19 | 5 95 1717 |
| MOSCOW 1 METEO | 5.3550 | RND77 | RUSSIA | FAX 10 | 4 95 1838 |
| BEIJING METEO | 5.5270 | BAF 6 | CHINA | FAX 22 | 4 95 1838 |
| DARWIN METEO 1100-2300 | 5.7550 | AXI32 | AUSTRALIA | FAX 2 | 7 95 1809 |
| USN ROTA 24H | 5.8645 | AOK | SPAIN | FAX 16 | 5 95 2124 |
| METEO RN | 6.4530 | GYA | UK | FAX 15 | 5 95 1644 |
| HALIFAX METEO | 6.4964 | CFH | CANADA | FAX 23 | 4 95 540 |
| ANKARA METEO | 6.7900 | YMA22 | TURKEY | FAX 6 | 5 95 447 |
| MOSCOW METEO | 6.8800 | RAN77 | RUSSIA | FAX 3 | 4 95 1742 |
| MADRID WEFAX | 6.9185 | ECA 7 | SPAIN | FAX 3 | 4 95 1741 |
| KIEV METEO | 6.9500 | RKJ78 | UKRAINE | FAX 3 | 4 95 1740 |
| DARWIN METEO 1100-2300 | 7.5350 | AXI33 | AUSTRALIA | FAX 2 | 7 95 1803 |
| MOSCOW METEO | 7.6700 | RCC76 | RUSSIA | FAX 16 | 4 95 2125 |
| MOSCOW 1 METEO | 7.7500 | RAW78 | RUSSIA | FAX 3 | 4 95 1749 |
| ARKHANGELSK METEO | 7.7620 | RGH77 | ARMENIA | FAX 19 | 5 95 445 |
| COMMSTA | 7.8700 | ? | USA | FAX 19 | 5 95 605 |
| HAMBURG METEO | 7.8800 | DDK 3 | GERMANY | FAX 30 | 3 95 1410 |
| BRACKNELL METEO | 8.0400 | GFA23 | UK | FAX 7 | 4 95 1618 |
| USN CUTLER METEO ON CALL | 8.0800 | NAA | USA | FAX 16 | 4 95 2147 |
| BEIJING METEO | 8.1220 | BAF36 | CHINA | FAX 22 | 4 95 1839 |
| ROME METEO | 8.1466 | IMB54 | ITALY | FAX 14 | 4 95 1734 |
| METEO RN | 8.3310 | GYA | UK | FAX 12 | 5 95 1140 |
| TOKYO 4 | 8.4675 | JJC | JAPAN | FAX 22 | 4 95 1658 |
| NAIROBI METEO | 9.0430 | 5YE | KENYA | FAX 27 | 4 95 1820 |

| | | | | | |
|--------------------------|---------|-------|------------|--------|-----------|
| TASHKENT 2 METEO | 9.1500 | RCH73 | UZBEKISTAN | FAX 12 | 4 95 1757 |
| NOVOSIBIRSK 1 METEO | 9.2200 | RTB26 | RUSSIA | FAX 1 | 5 95 1752 |
| KABAROVSK METEO | 9.2300 | RXO70 | RUSSIA | FAX 1 | 5 95 1815 |
| KEFLAVIK USN 24H | 9.3180 | NRK | ICELAND | FAX 16 | 5 95 1356 |
| TASHKENT 1 METEO | 9.3400 | RCH72 | UZBEKISTAN | FAX 12 | 4 95 541 |
| BEIJING METEO | 10.1170 | BAF 4 | CHINA | FAX 22 | 4 95 1840 |
| CAIRO WEFAX | 10.1230 | SUU 2 | EGYPT | FAX 3 | 4 95 1831 |
| MADRID (VICALV) METEO | 10.2500 | ECA 7 | SPAIN | FAX 9 | 5 95 1748 |
| HALIFAX METEO | 10.5350 | CFH | CANADA | FAX 17 | 4 95 1948 |
| DARWIN METEO | 10.5550 | AXI34 | AUSTRALIA | FAX 22 | 4 95 711 |
| USN CUTLER METEO 12-00Z | 10.8650 | NAA | USA | FAX 9 | 5 95 2200 |
| MOSCOW 1 METEO | 10.9800 | RDD79 | RUSSIA | FAX 3 | 4 95 1823 |
| CANBERRA METEO | 11.0300 | AXM34 | AUSTRALIA | FAX 22 | 4 95 724 |
| USN ROTA 0600-1800 | 11.4850 | AOK | SPAIN | FAX 3 | 4 95 1842 |
| USN ROTA 0600-1800 | 11.5290 | AOK | SPAIN | FAX 29 | 7 95 1418 |
| MOSCOW METEO | 12.1650 | RKB78 | RUSSIA | FAX 30 | 3 95 1450 |
| COMMSTA BOSTON | 12.7500 | NIK | USA | FAX 22 | 4 95 2123 |
| USN DIEGO GARCIA 24H NPN | 12.8040 | NKW | CHAGOS IS. | FAX 18 | 7 95 1635 |
| METEO RN | 12.8450 | GYA | UK | FAX 12 | 5 95 1141 |
| MOSCOW METEO | 13.4700 | RKU71 | RUSSIA | FAX 14 | 4 95 836 |
| HALIFAX METEO | 13.5100 | CFH | CANADA | FAX 17 | 4 95 1710 |
| ROME METEO | 13.5980 | IMB56 | ITALY | FAX 14 | 4 95 1735 |
| HAMBURG METEO | 13.8825 | DDK 6 | GERMANY | FAX 13 | 5 95 1005 |
| PEKING METEO 1500 SCHED | 13.9000 | BMP | CHINA | FAX 1 | 5 95 1528 |
| CANBERRA METEO | 13.9200 | AXM35 | AUSTRALIA | FAX 22 | 4 95 725 |
| TASHKENT METEO | 13.9470 | ROM 5 | UZBEKISTAN | FAX 23 | 4 95 511 |
| BRACKNELL METEO | 14.4360 | GFE23 | UK | FAX 24 | 6 95 2034 |
| USUI (TOKYO) METEO | 14.6925 | JMJ 4 | JAPAN | FAX 22 | 4 95 1010 |
| TASHKENT 1 METEO | 14.9820 | RVB76 | UZBEKISTAN | FAX 19 | 4 95 1606 |
| COMMSTA | 15.7810 | ? | USA | FAX 26 | 4 95 2130 |
| MOSCOW 1 METEO | 15.9500 | RBI77 | RUSSIA | FAX 15 | 4 95 1349 |

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|----------------------------|---------|--------|------------|--------|-------|------|
| BEIJING METEO | 16.0250 | BAF 9 | CHINA | FAX 13 | 5 95 | 533 |
| NAIROBI METEO | 16.1870 | 5YE | KENYA | FAX 5 | 6 95 | 1730 |
| KYODO NX JJ | 16.2700 | 9VF207 | SINGAPORE | FAX 31 | 5 95 | 1749 |
| METEO RN | 16.9120 | GYA | UK | FAX 22 | 5 95 | 1806 |
| TOKYO RADIO | 16.9710 | JJC | JAPAN | FAX 22 | 4 95 | 1130 |
| TOKYO RADIO | 17.0696 | JJC | JAPAN | FAX 4 | 7 95 | 2056 |
| NAIROBI METEO | 17.4450 | 5YE | KENYA | FAX 12 | 5 95 | 1855 |
| DARWIN METEO 2300-1100 | 18.0600 | AXI36 | AUSTRALIA | FAX 22 | 4 95 | 710 |
| TOKYO METEO | 18.2200 | JMH 5 | JAPAN | FAX 22 | 4 95 | 1010 |
| BRACKNELL METEO | 18.2610 | GFE24 | UK | FAX 15 | 4 95 | 1227 |
| USUI (TOKYO) METEO | 18.4412 | JMJ 5 | JAPAN | FAX 28 | 10 95 | 841 |
| BUENOS AIRES METEO | 18.6220 | LRO84 | ARGENTINA | FAX 18 | 4 95 | 2100 |
| COMMSTA | 19.3630 | ? | USA | FAX 9 | 6 95 | 2209 |
| NX JJ | 19.6800 | J?? | JAPAN | FAX 22 | 4 95 | 940 |
| DAKAR METEO | 19.7520 | 6VU | SENEGAL | FAX 12 | 6 95 | 2110 |
| USN DIEGO GARCIA 0100-1430 | 20.3020 | NKW | CHAGOS IS. | FAX 19 | 7 95 | 1554 |

Fast Food Drive Through Windows

| | |
|---------|---------|
| Arbys | |
| 31.0000 | 457.550 |

| | | | | | | | |
|-------------|----------|----------|----------|----------|----------|----------|----------|
| Burger King | | | | | | | |
| 30.8400 | 31.0000 | 170.3050 | 457.5625 | 154.5700 | 457.6000 | 467.8250 | 467.7875 |
| 461.2875 | 466.2875 | | | | | | |

| | | | | | | | |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Carl Karcher Ent. (Carl's Jr.) | | | | | | | |
| 30.8400 | 806.0000 | 817.5875 | 819.2375 | 154.5700 | 816.1375 | 817.6375 | 819.3375 |
| 457.5375 | 816.2375 | 817.7375 | 819.5875 | 460.8875 | 816.3375 | 818.1375 | 819.6375 |
| 461.0875 | 816.5875 | 818.2375 | 819.7375 | 465.8875 | 816.6375 | 818.3375 | 820.1375 |
| 466.0875 | 816.7375 | 818.5875 | 820.2375 | 468.3875 | 817.1375 | 818.6375 | 820.3375 |
| 806.0000 | 817.2375 | 818.7375 | 820.5875 | 806.0000 | 817.3375 | 819.1375 | 820.6375 |
| 820.7375 | | | | | | | |

| | |
|--------------------|---------------|
| Dairy Queen | |
| 30.840 | 154.57 |

| | |
|------------------------|----------------|
| Frosters Freeze | |
| 31.000 | 170.305 |

| | | | |
|----------------|----------------|---------------|----------------|
| Hardees | | | |
| 30.840 | 154.570 | 35.020 | 154.600 |

| | | |
|------------------------|----------------|----------------|
| Jack In The Box | | |
| 33.400 | 154.540 | 469.025 |

| | | | | | | | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| Kentucky Fried Chicken | | | | | | | |
| 30.840 | 31.000 | 33.400 | 154.570 | 170.305 | 457.5875 | 457.600 | 460.8875 |
| 462.750 | 465.8875 | 461.0875 | 462.7625 | 467.8125 | 467.8875 | 806.000 | |

| | | | | | | | |
|------------------|----------------|----------------------------|----------------|----------------|----------------|----------------|----------------|
| McDonalds | | | | | | | |
| 30.840 | 31.000 | 33.140 | 35.020 | 151.715 | 151.775 | 151.895 | 154.060 |
| 154.570 | 154.600 | 154.700 | 165.600 | 169.445 | 467.775 | 457.550 | |
| | | Wireless Mic Freqs. | | | | | |
| | | 170.245 | 170.305 | 171.105 | 171.905 | | |

| | | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Taco Bell | | | | | | | |
| 30.8400 | 31.0000 | 33.4000 | 154.5150 | 154.5400 | 154.5700 | 466.0875 | 466.5375 |
| 457.5375 | 457.5500 | 460.8875 | 461.0375 | 461.0875 | 461.5375 | 464.9625 | 466.0375 |
| 468.3875 | 469.9625 | | | | | | |

| | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Wendys | | | | | | | |
| 31.0000 | 170.3050 | 457.5375 | 468.3875 | 460.8875 | 461.0875 | 465.8875 | 466.0875 |