

FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON 25, D.C.

PUBLIC NOTICE

(June 27, 1946)

The Federal Communications Commission today announced a revision of the allocations of radio frequencies to non-government services. This revision involves:

1. A joining of the bands 3700-4000 Mc and 4200-4400 Mc into one band whose limits are 3700-4200 Mc.
2. The shifting of the Air Navigation Aids (Altimeters) band from 4000-4200 Mc to 4200-4400 Mc.

This revision constitutes a further modification of the Commission's Report of Allocations from 25,000 kilocycles to 30,000,000 kilocycles dated May 25, 1945 (Docket 6651). The other modifications which have been made since May 25, 1945 are reflected in the following listing of service allocations. This listing supersedes completely Section 1, Part 1 "Table of Allocations from 25,000 Kc to 30,000,000 Kc", pages 5 to 13 inclusive, in the Report of May 25, 1945 and recapitulates all changes which have been made as of June 27, 1946.

TABLE OF ALLOCATIONS FROM 25,000 KC TO 30,000,000 KC

The following table contains the allocations of frequencies to the various non-governmental radio services from 25,000 to 30,000,000 kilocycles. The table also contains for convenient reference the international allocations which the Commission will recommend to the Department of State and the allocations which the Interdepartment Radio Advisory Committee is proposing for the governmental radio services.

Freq. Band Mc.	Proposed International Allocation	United States Allocation	Remarks
25.015-27.185.....	Fixed & Mobile, except Aero. & Maritime Mobile.	Gov. and Non-Gov. Fixed & Mobile except Aero. and Maritime Mobile. Note 1.	Power to be limited internationally to 500 watts peak.
27.185-27.455.....	Scientific, Industrial and Medical.	Scientific, Industrial and Medical.	All equipment to be adjusted and maintained as closely as possible to 27.320 Mc.
27.455-28.....	Fixed & Mobile except Maritime Mobile.	Gov. and Non-Gov. Fixed & Mobile except Maritime Mobile. Note 1.	Power to be limited internationally to 500 watts peak.
28-29.700.....	Amateur.	Amateur.	
29.700-30.....	Fixed & Mobile except Maritime Mobile.	Gov. and Non-Gov. Fixed & Mobile except Maritime Mobile. Note 1.	Power to be limited internationally to 500 watts peak.
30-30.5.....	Fixed & Mobile except Aero. Mobile.	Government.	Note 2.
30.5-32.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 3.
32-33.....	Fixed & Mobile except Aero. Mobile.	Government.	Note 2.

See notes at end of table.

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Freq. Band Mc.	Proposed International Allocation	United States Allocation	Remarks
33-34.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 3.
34-35.....	Fixed & Mobile except Aero. Mobile.	Government.....	Note 2.
35-36.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 3.
36-37.....	Fixed & Mobile except Aero. Mobile.	Government.....	Note 2.
37-38.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 3.
38-9.....	Fixed & Mobile except Aero. Mobile.	Government.....	Note 2.
39-40.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 3.
40-40.96.....	Fixed & Mobile except Aero. Mobile.	Government.....	Note 2.
40.96-41.....	Scientific, Industrial and Medical.	Scientific, Industrial & Medical.	
41-42.....	Fixed & Mobile except Aero. Mobile.	Government.....	Note 2.
42-44.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	Notes 2 & 4.
44-50.....	Broadcasting, Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 1.
50-54.....	Amateur.....	Amateur.....	
54-60.....	Broadcasting, Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 2.
60-66.....	Broadcasting, Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 3.
66-72.....	Broadcasting, Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 4.
72-76.....	Fixed & Mobile, except Aero. Mobile.	Non-Gov. Fixed & Mobile, except Aero. Mobile. Notes 5A & 6.	
76-82.....	Broadcasting, Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 5.
82-88.....	Broadcasting, Fixed & Mobile.	Television Broadcasting....	Channel 6.
88-92.....	Broadcasting.....	Educational FM Broadcasting. Note 6A.	
92-108.....	Broadcasting.....	Commercial FM Broadcasting. Note 6A.	
108-112.....	Air Navigation (Localizers).	Government.....	
112-118.....	Air Navigation (Ranges)...	Government.....	
118-122.....	Aero. Mobile (Airport Control).	Airport Control.....	
122-132.....	Aero. Mobile.....	Aero. Mobile (Primarily Non-Gov.).	
132-144.....	Fixed & Aero. Mobile.....	Government.....	
144-148.....	Amateur.....	Amateur.....	
148-152.....	Fixed & Aero. Mobile.....	Government.....	
152-162.....	Fixed & Mobile except Aero. Mobile.	152.0-158.4 Mc Non-Gov., Fixed & Mobile except Aero. Mobile. 158.4-162.0 Mc Railroad service.	Note 7.
162-174.....	Fixed & Mobile.....	Government.....	
174-180.....	Broadcasting Fixed & Mobile.	Television & Government..	Channel 7.
180-186.....	Broadcasting Fixed & Mobile.	Television & Government..	Channel 8.
186-192.....	Broadcasting Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 9.
192-198.....	Broadcasting Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 10.
198-204.....	Broadcasting Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 11.
204-210.....	Broadcasting Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 12.
210-216.....	Broadcasting Fixed & Mobile.	Television, Fixed & Mobile. Note 5.	Channel 13.
216-220.....	Fixed & Mobile.....	Government.....	
220-225.....	Amateur.....	Amateur.....	
225-328.6.....	Fixed & Mobile.....	Government (Military) with adequate channels to be reserved for civil aviation. Note 9.	

See notes at end of table.

Freq. Band Mc.	Proposed International Allocation	United States Allocation	Remarks
328.6-335.4	Air Navigation Aids (Glide Path).	Air Navigation Aids (Glide Path).	
335.4-400	Fixed & Mobile	Government (Military) with adequate channels to be reserved for civil aviation.	
400-420	Fixed & Mobile (including Radio Sonde).	Government (including Radio Sonde).	
420-450	Air Navigation & Amateur	Amateur & Air Navigation. Note 8.	

Note 1.—On the basis of an average channel width of 25 Kc provisions will be made for the following services in the band 25 to 30 Mc.:

Class of Station:	No. of Channels
Relay Broadcast, Geophysical	24
Power and Petroleum, etc.*	12
Provisional, Experimental	10
Relay Press, Motion Picture	6
Aeronautical (Primarily Flight Test & Flying School)	7

*Other industries requiring similar radio service.

Note 2.—No change proposed in existing services between 30 and 44 Mc outside of the Continental United States.

Note 3.—On the basis of an average channel width initially of 40 Kc, provisions will be made for the following services in the band 30-40 Mc:****

Class of Station:	No. of Channels
Provisional, Experimental	2
General Highway Mobile**	20
Maritime Mobile, Geophysical	4
Forestry and Conservation (6 shared with Maritime Mobile and 6 shared with Urban Transit)	29
Special Emergency	6
Power and Petroleum, etc.*	7
Urban Transit, Provisional, Experimental	5
Fire	15
Police	36
Low Power Provisional and Experimental***	2

* Other industries requiring similar radio service.

** May provide radio communication service to all types of mobile units such as marine, land vehicles, aircraft, etc. Pending final determination of the best method of operation of this service these channels will be assigned on an experimental basis—12 for development on a common carrier basis, 4 for trucks and 4 for buses, except in those cases where it is shown that a different distribution is more desirable.

*** Antenna input power limited to 5 watts peak.

**** In addition, 11 government channels are to be designated in this band.

Note 4.—On the basis of an average channel width initially of 40 Kc, provisions will be made for the following services in the band 42-44 Mc.:

Class of Station:	No. of Channels
Maritime Mobile, Geophysical	5
General Highway Mobile**	20
Police	24
Provisional, Experimental	1

Note 5.—Provision may be made for the operation of non-governmental fixed and mobile services (such as police control and relay circuits, point-to-point, marine control circuits, forestry fixed circuits, rural telephone, broadcast studio-to-transmitter links, railroad terminal and yard operations) upon proper showing of need and that these channels may be shared on a mutually non-interfering basis.

Note 5A.—Aeronautical markers to remain on 75 Mc with adequate guard bands as doing as required or until moved to another suitable frequency.

Note 6.—On the basis of an average channel width of 40 Kc provisions will be made for the following services in the band 72-76 Mc.:

Class of Station:	No. of Channels
Provisional, Experimental	2
Forestry and Conservation	8
Power and Petroleum, etc.*	6
Urban Transit, Forestry and Conservation	6
Special Emergency (including Highway Maintenance), Provisional	10
Fire	12
Police	36

Notes—Continued

Note 6A.—The FM Broadcast bands are also available for Facsimile Broadcasting.
 Note 7.—On the basis of an average channel width of 60 Kc provisions will be made for the following services in the band 152-162 Mc.:

Class of Station:	No. of Channels
Police.....	36
Fire.....	12
Provisional, Experimental.....	2
Relay Press, Forestry and Conservation, Geophysical.....	4
Power and Petroleum, etc.*.....	6
Maritime Mobile.....	8
Urban Mobile**, Rural Subscriber Telephone, Short-Distance Toll Telephone.....	24
Relay Broadcast, Motion Picture, Geophysical, Forestry and Conservation.....	12
Provisional, Experimental.....	2
Railroads.....	60

Services now operating between 156 Mc and 162 Mc may continue temporarily on a non-interfering basis in the 152-162 Mc band.

Note 8.—To be used temporarily for "Special" air navigation aids. Band to be exclusively Amateur when no longer required for "Special" air navigation aids; meanwhile Amateur peak power to be limited to 50 watts.

Note 9.—The United States will permit interim use of the band 216-231 Mc for the British radar distance indicator system at specific U.S. gateways of International Air Routes and within interference range of the U.S.-Canadian border. The interim use at these locations will terminate not later than January 1, 1949. While the United States Allocation table above 25 Mc is not to be modified as a result of this arrangement, an interim allocation for the period ending January 1, 1949, has been effected as follows:

216-231 Mc.....	Radar Distance Indicators.
231-235 Mc.....	Government (in areas within the interference range of the Distance Indicator).
235-240 Mc.....	Amateur (in U.S. and Canada).

All Non-Government services will be established in the bands above 450 Mc on an experimental basis pending adequate showing as to need and technical requirements.

Freq. Band Mc.	Proposed International Allocation	United States Allocation	Remarks
450-460.....	Air Navigation.....	Non-Gov. Fixed & Mobile..	Note. 10.
460-470.....	Fixed & Mobile.....	Citizens' Radio.....	
470-480.....	Broadcasting.....	Facsimile Broadcasting.....	
480-920.....	Broadcasting.....	Television.....	
920-960.....	(a) Broadcasting.....	920-940 Mc Experimental Broadcast.	Notes 11, 12 & 15.
	(b) Fixed.....	Non-Gov. Fixed.	
		940-952 Mc Non-Gov. Fixed.	Notes 11, 13, 15.
		952-960 Mc Non-Gov. Fixed.	Notes 11, & 14.
960-1215.....	Navigation Aids.....	Navigation Aids.....	
1215-1295.....	Amateur.....	Amateur.....	
1295-1375.....	(a) Fixed.....	Television Relay.....	
	(b) Mobile except Aero.		
1375-1425.....	(a) Fixed.....	Non-Gov. Fixed & Mobile..	
	(b) Mobile.		
1425-1600.....	(a) Fixed.....	Government.....	
	(b) Mobile.		
1600-1700.....	Air Navigation Aids.....	Air Navigation Aids.....	
1700-1750.....	Meteorological.....	Meteorological.....	
1750-2100.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
2100-2300.....	Fixed & Mobile.....	Government.....	
2300-2450.....	Amateur.....	Amateur.....	
2450-2700.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
2700-2900.....	Meteorological & Air Navigation Aids.	Meteorological & Air Navigation Aids.	
2900-3700.....	Navigation Aids.....	Navigation Aids.....	Note 16.
3700-4200.....	(a) Fixed.....	Non-Gov. Fixed & Mobile except Aero. Mobile.	
	(b) Mobile except Aero.	Air Navigation Aids (Altimeters).	
4200-4400.....	Air Navigation Aids.....	Government.....	
4400-5000.....	Fixed & Mobile.....	Air Navigation Aids (instrument landing).	
5000-5250.....	Air Navigation Aids (Instrument landing).	Amateur.....	
5250-5650.....	Amateur.....		

See footnotes at end of table.

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Freq. Band Mc.	Proposed International Allocation	United States Allocation	Remarks
5650-7050.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
7050-8500.....	Fixed & Mobile.....	Government.....	
8500-9300.....	Special Navigation Aids.....	Government.....	
9300-9600.....	Navigation Aids.....	Navigation Aids.....	Note 17.
9600-10000.....	Special Navigation Aids.....	Government.....	
10000-10500.....	Amateur.....	Amateur.....	
10500-13000.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
13000-16000.....	Fixed & Mobile.....	Government.....	
16000-18000.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
18000-21000.....	Fixed & Mobile.....	Government.....	
21000-22000.....	Amateur.....	Amateur.....	
22000-26000.....	Fixed & Mobile.....	Government.....	
26000-30000.....	Fixed & Mobile except Aero. Mobile.	Non-Gov. Fixed & Mobile except Aero. Mobile.	
30000-Up.....	Experimental.....	Experimental.....	

Note 10.—To be temporarily used for "Special" air navigation aids and reserved for Non-Government services when no longer required for "Special" air navigation aids.

Note 11.—Assignments in the frequency band 920-960 Mc are to be on multiples of 100 Kc in order that a flexible channeling system may be provided. The bandwidths required by the different services concerned can be accommodated through the assignment of an appropriate number of adjacent channels to each station.

Note 12.—Assignments to FM studio-to-transmitter links may be made in the upper portion of the 920-940 Mc band in the event that future requirements indicate that insufficient space is available in the band 940-952 Mc.

Note 13.—The band of frequencies 940-952 Mc is to be used for FM studio-to-transmitter links with assignments progressing upward from 940 Mc.

Note 14.—The band of frequencies 952-960 Mc is to be used for fixed circuits such as police facsimile, control circuits, etc., with assignments progressing downward from 960 Mc.

Note 15.—A frequency tolerance of .01% and a bandwidth of 500 Kc are advocated for FM studio-to-transmitter links.

Note 16.—Racons 3256 Mc. ± 3 Mc, with guard bands from 3246 to 3266 Mc.

Note 17.—Racons 9310 Mc. ± 3 Mc, with guard bands from 9300 to 9320 Mc.

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