

NTIA Spectrum Allocation Table

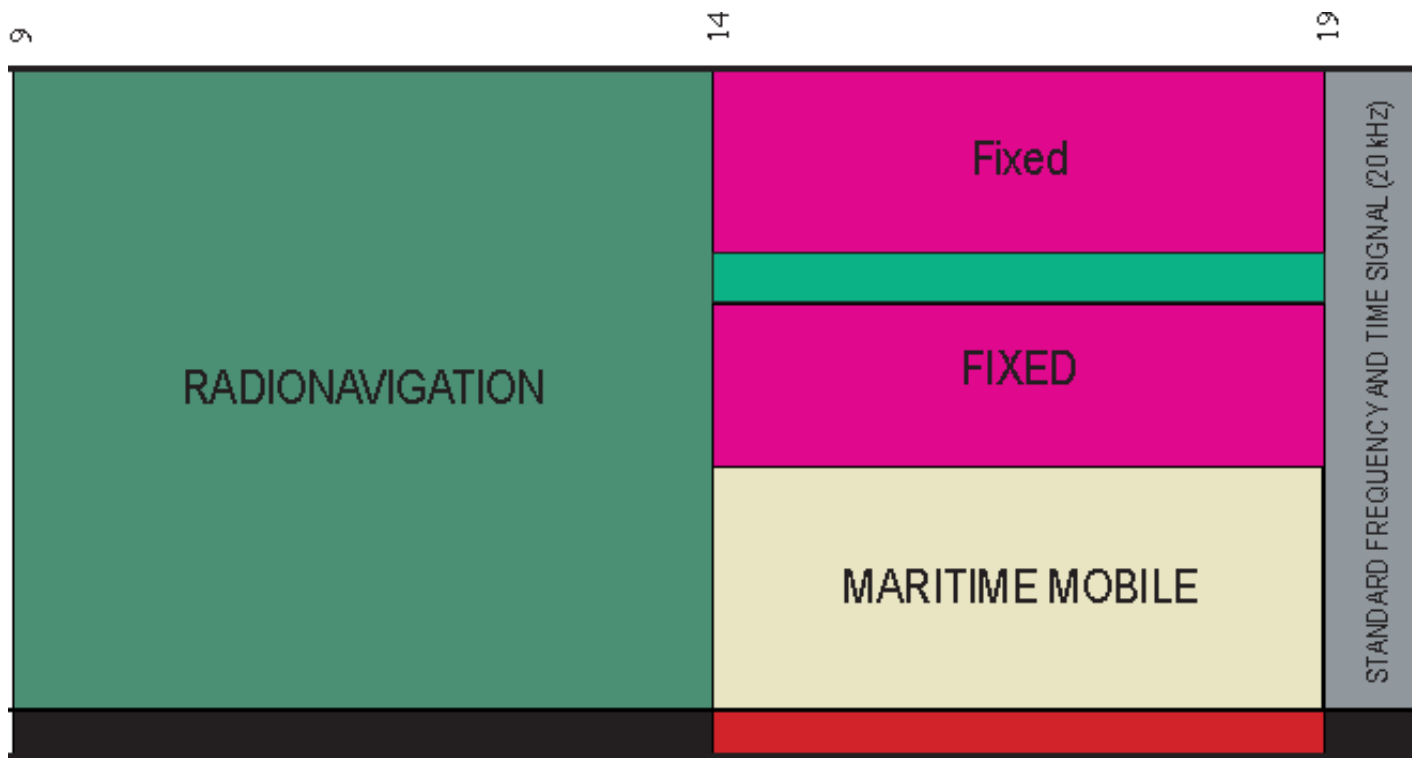
Separated into puzzle pieces. Just print, cut them out, and laminate.

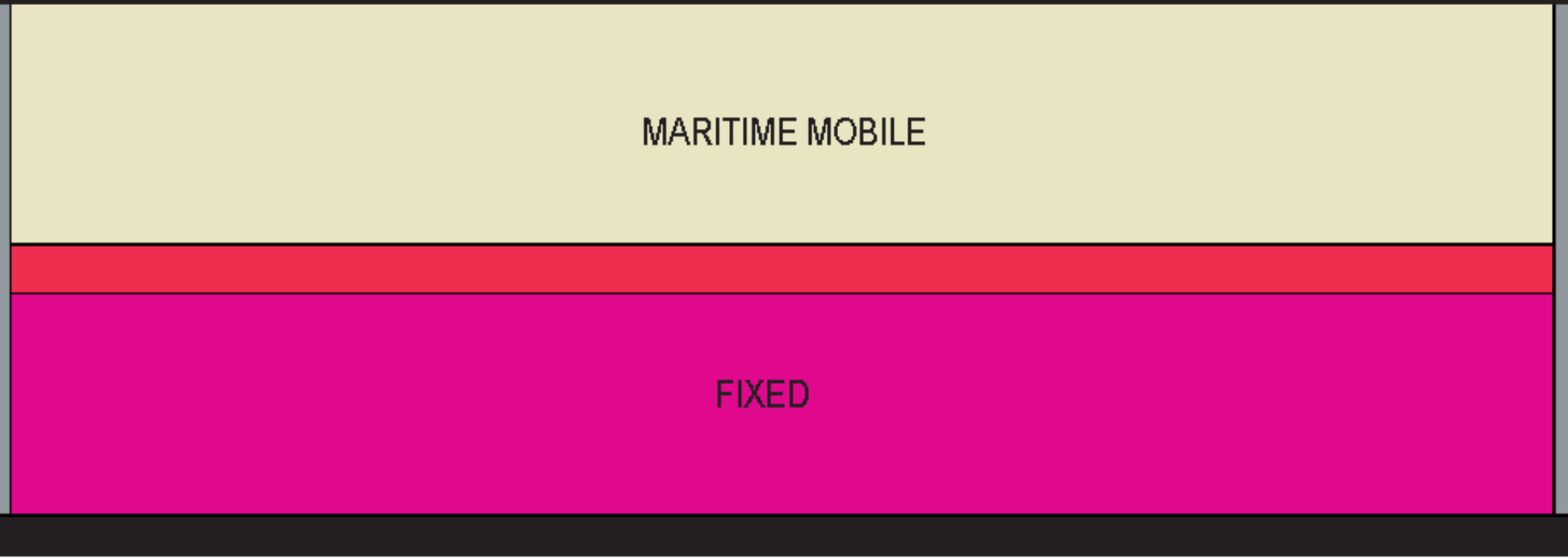
o

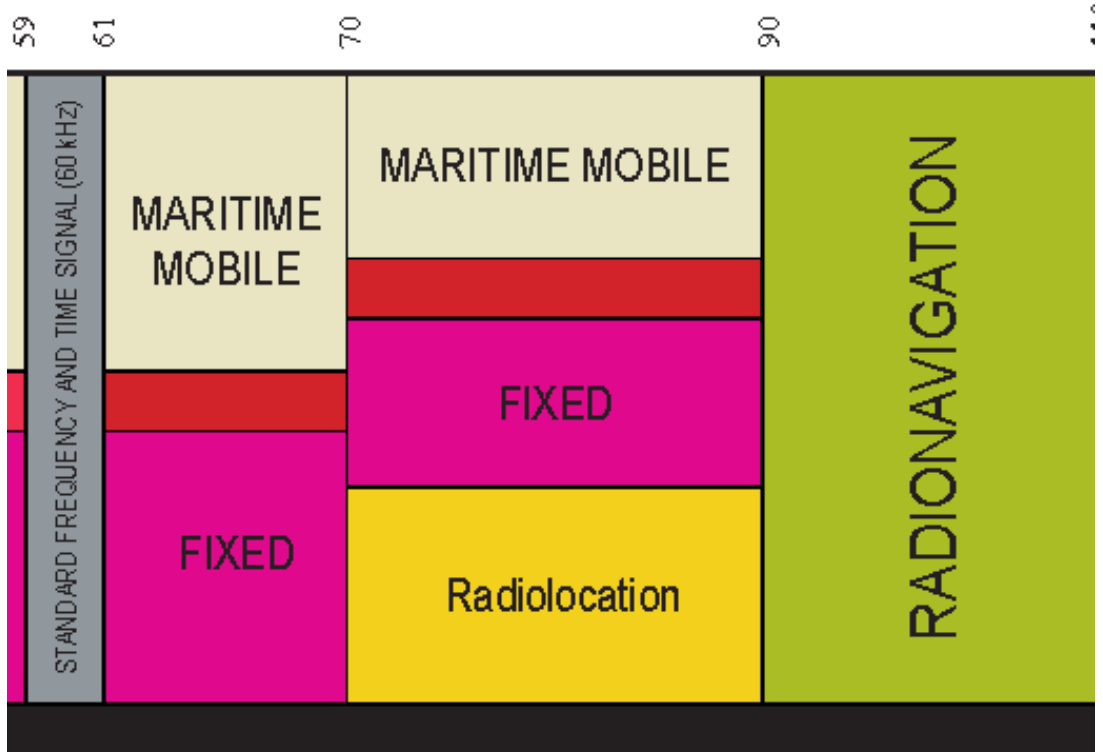
o

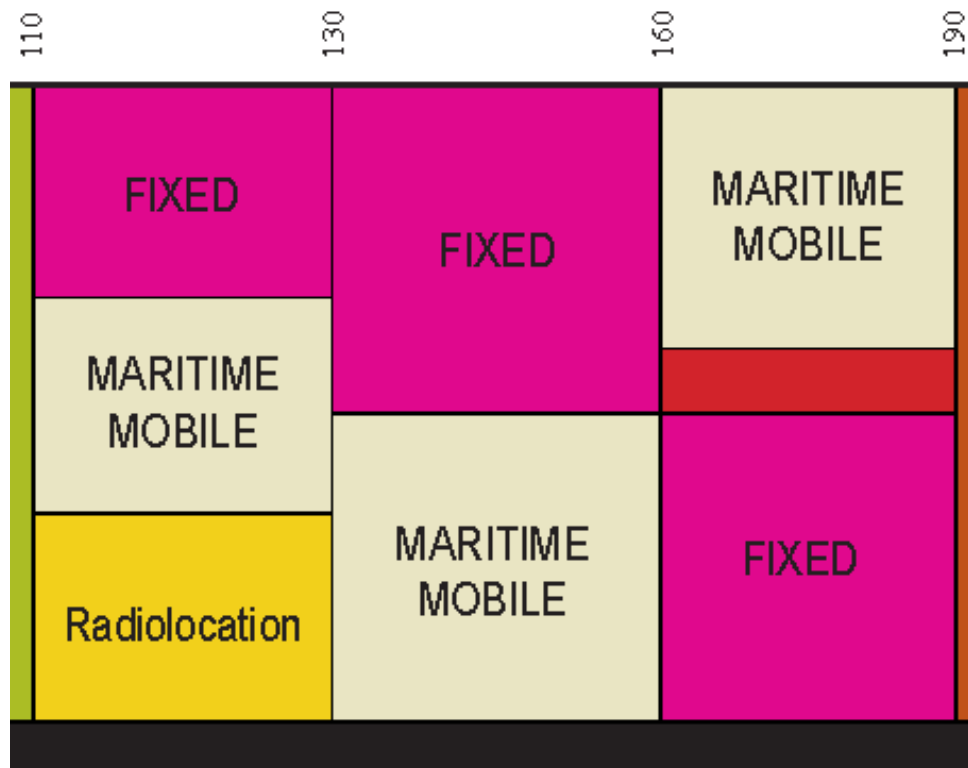
NOT ALLOCATED

0 kHz

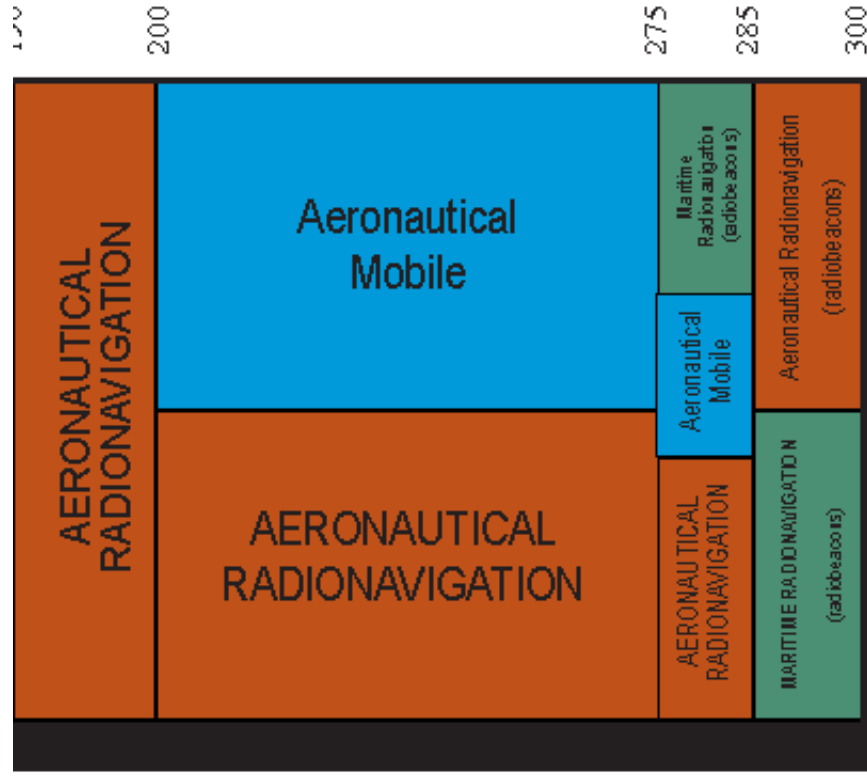








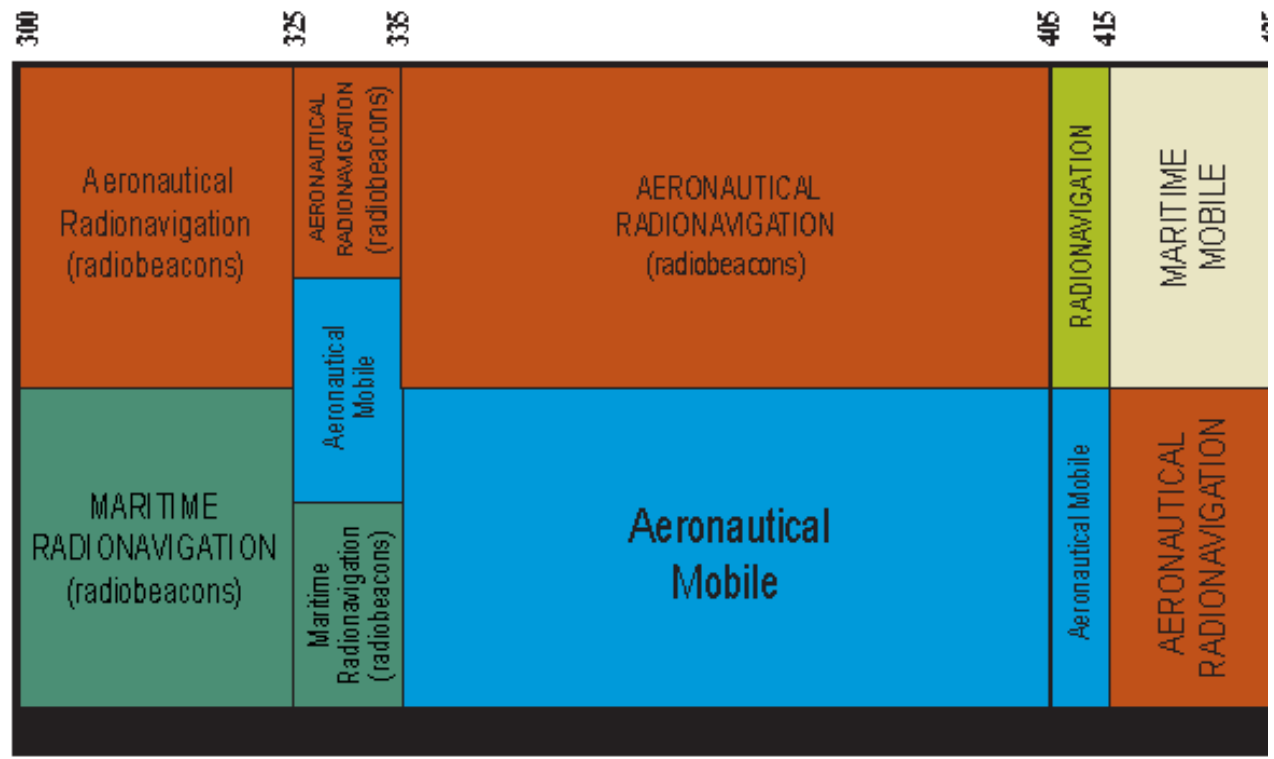
12 16



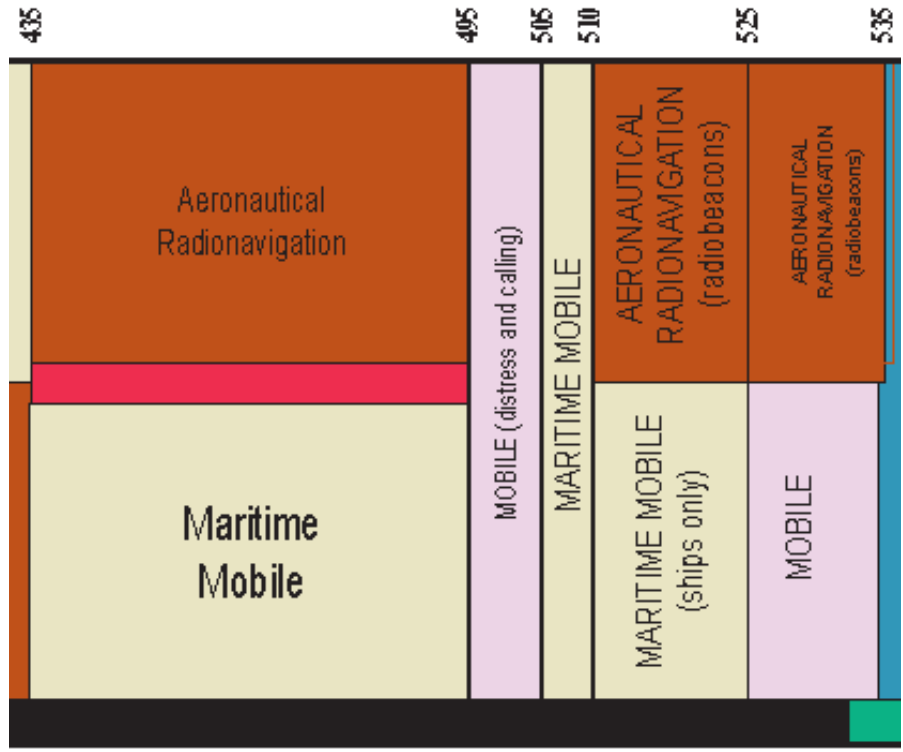
300 kHz



Line 2



300 kHz



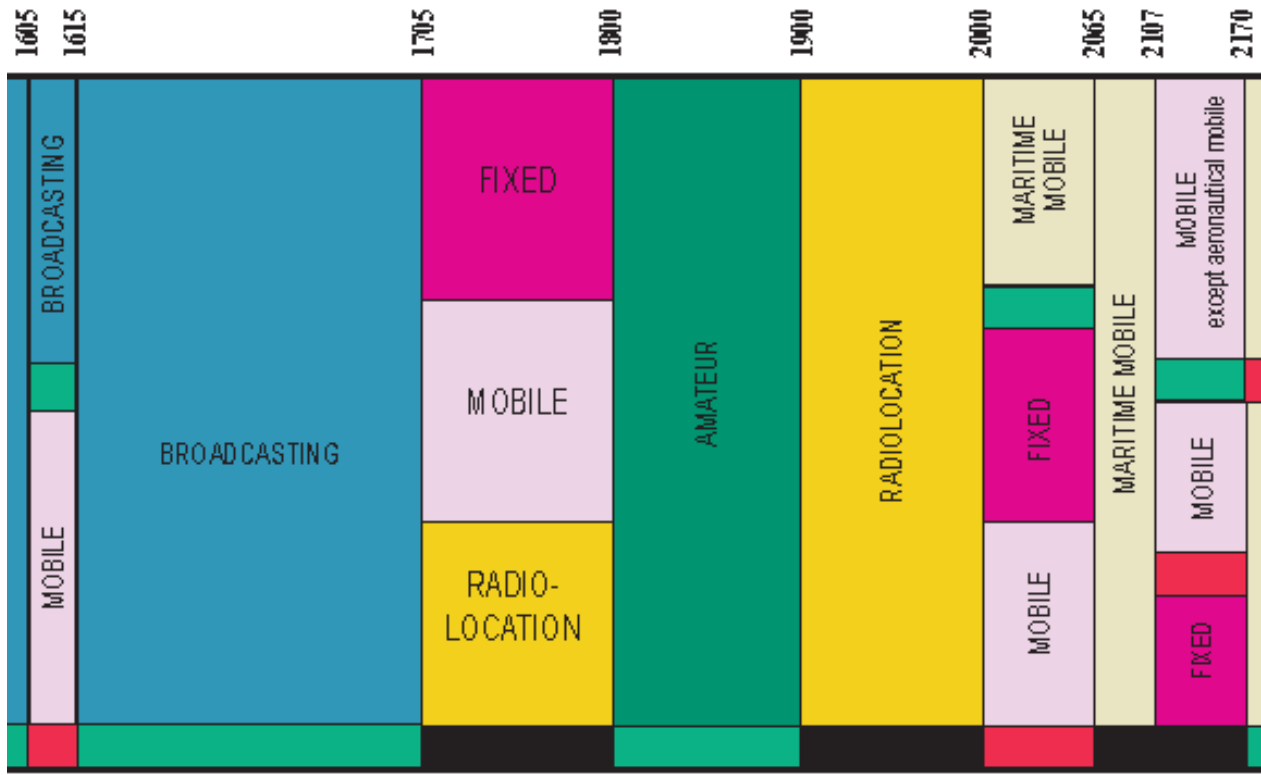
535

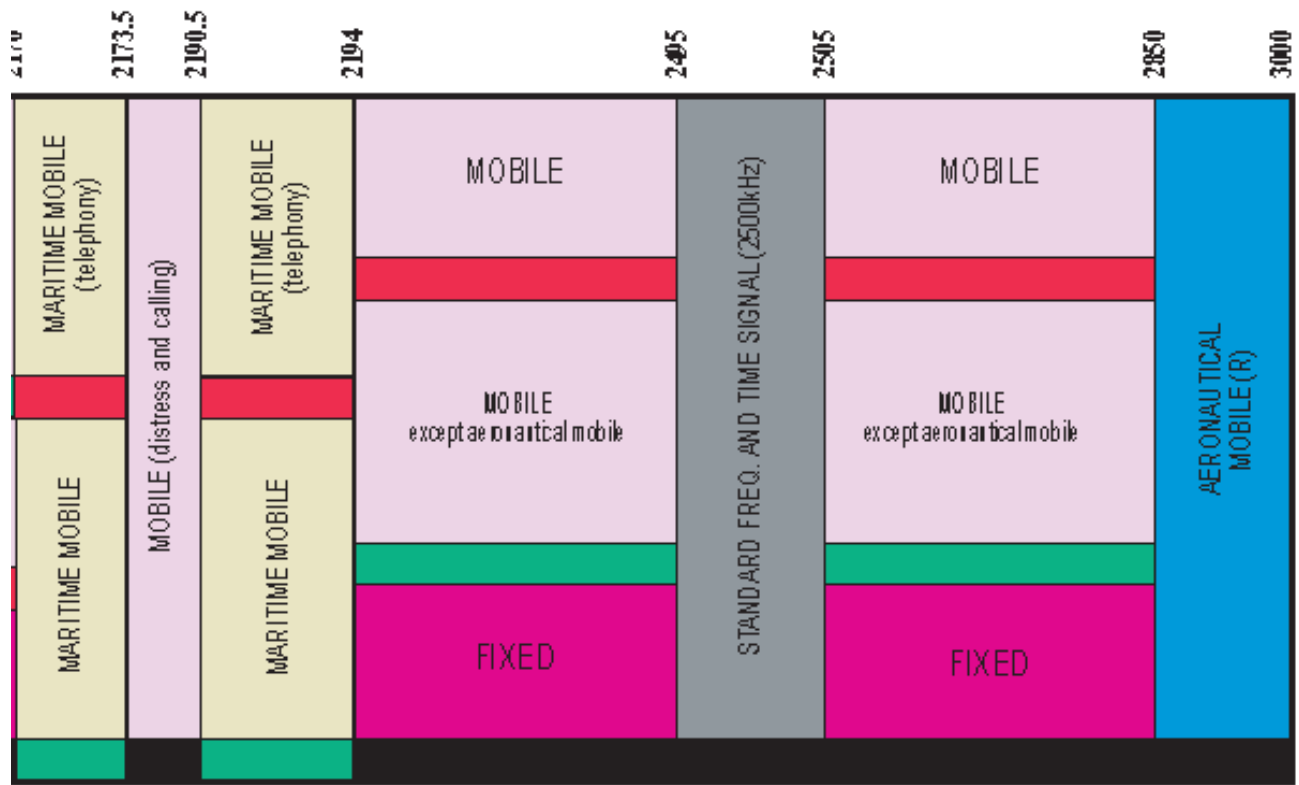
1605

BROADCASTING
(AM RADIO)



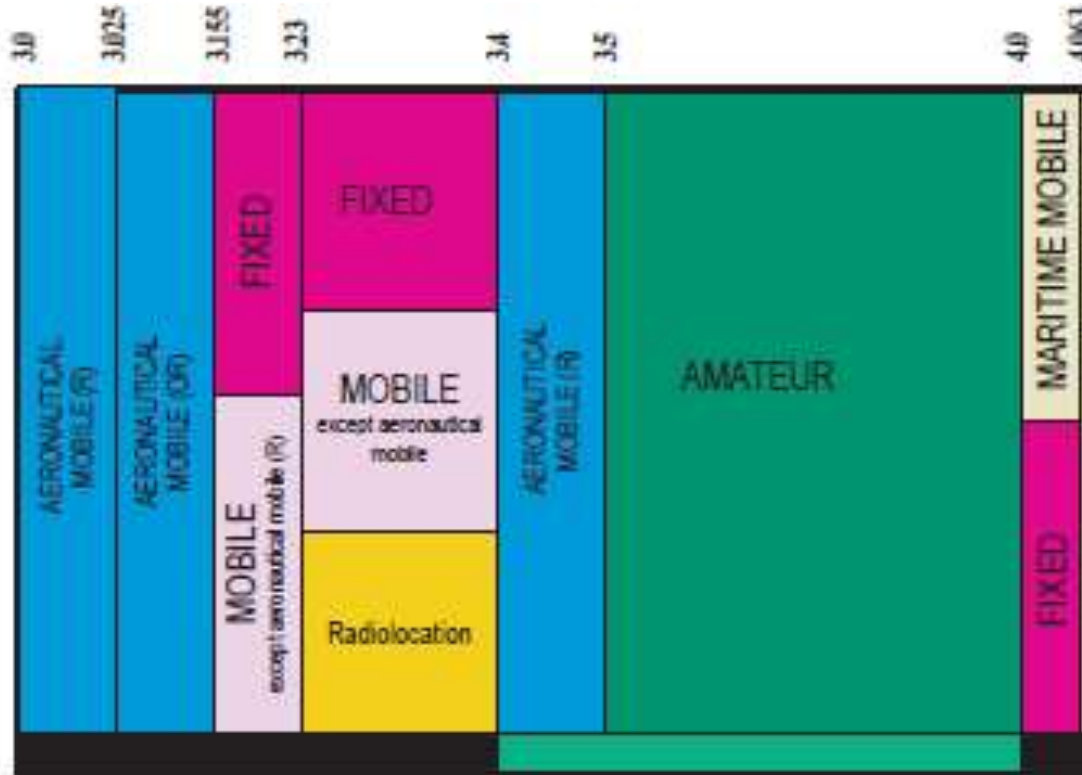
SPECTRUM
An NSF Spectrum Innovation Center





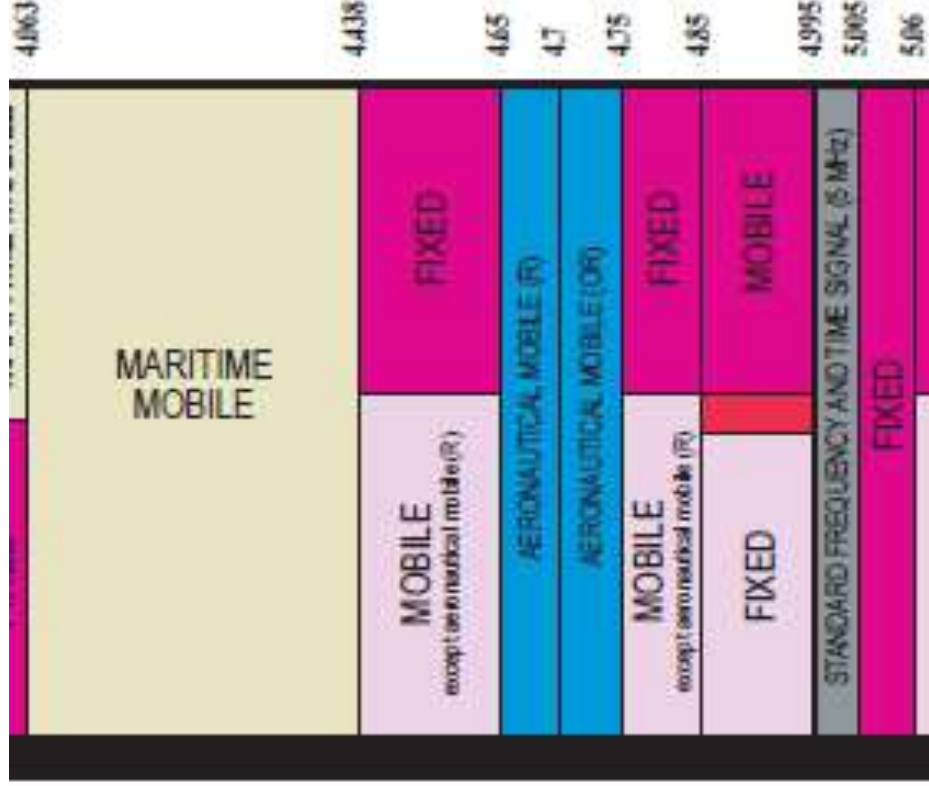
3 MHz

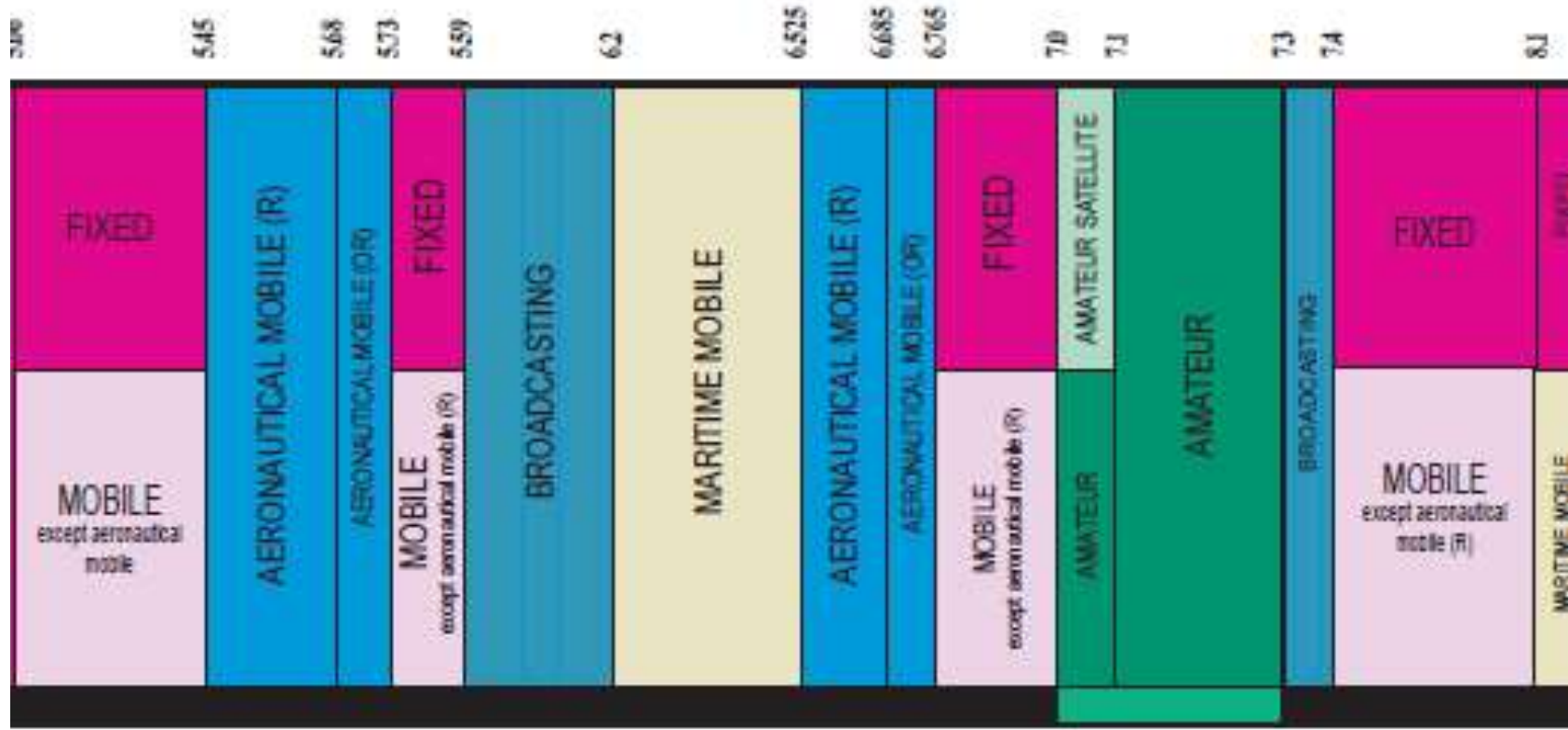
Row three



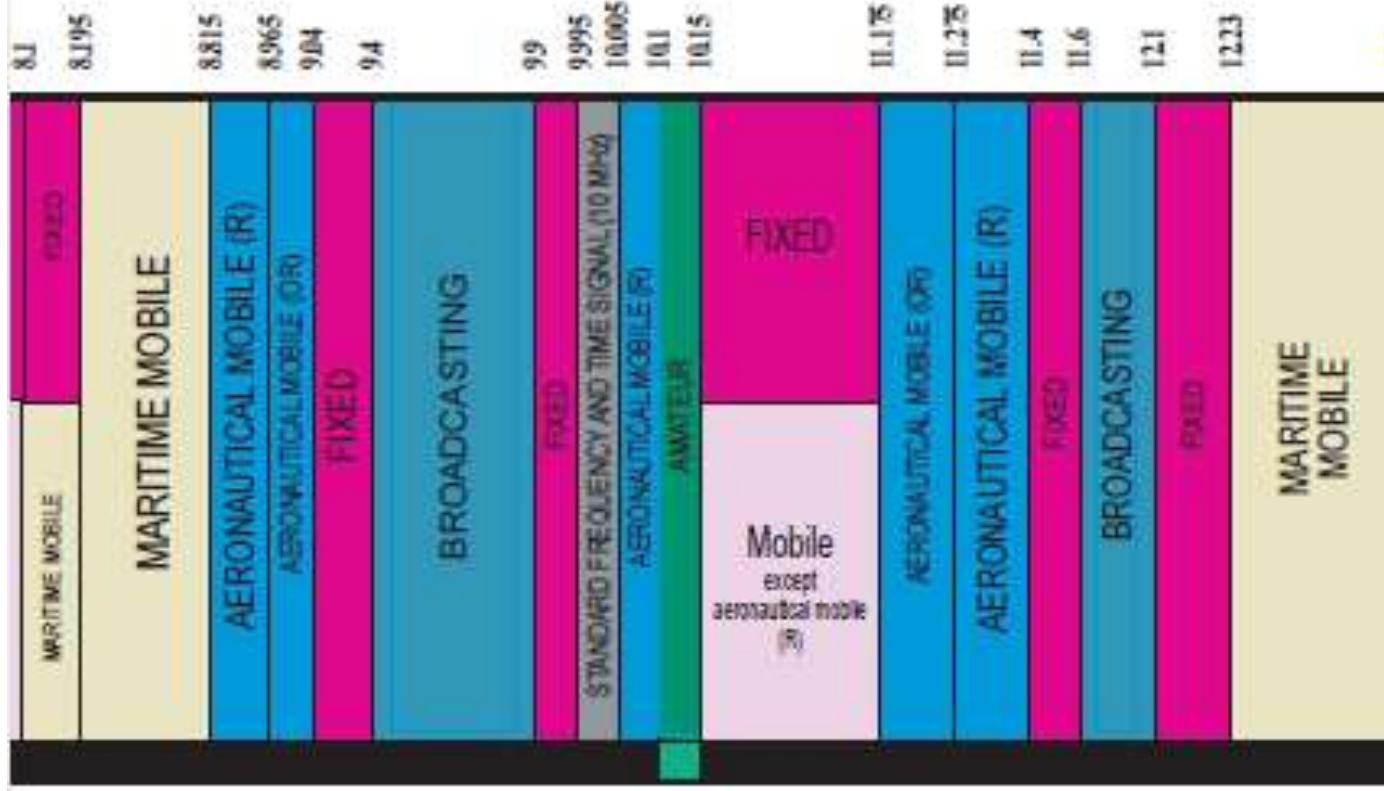
3MHz





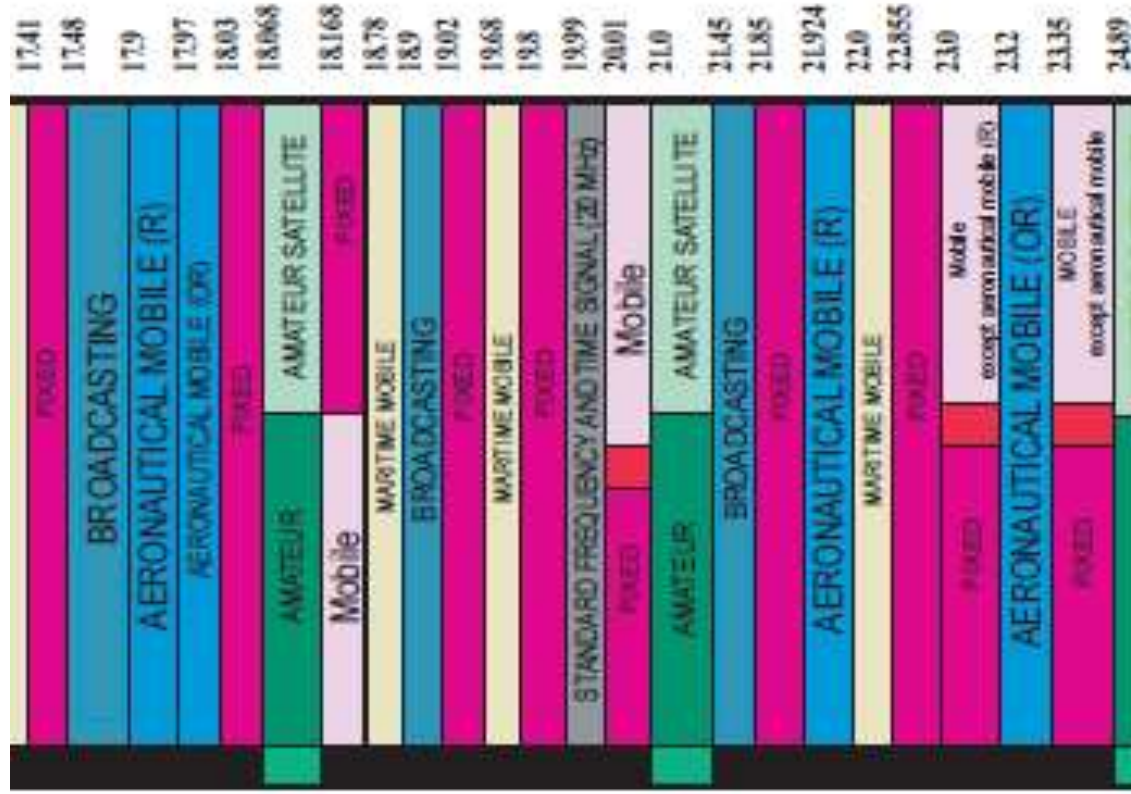


ISM - 6.78 ± .015 MHz



132	AERONAUTICAL MOBILE (R)	
1326	AERONAUTICAL MOBILE (R)	
1336	RADIO ASTRONOMY	
1341	FIXED	Mobile except aeronautical mobile (R)
1357	BROADCASTING	
1387	FIXED	Mobile except aeronautical mobile (R)
140	AMATEUR	AMATEUR SATELLITE
1425	AMATEUR	
1435	FIXED	Mobile except aeronautical mobile (R)
1499	STANDARD FREQUENCY AND TIME SIGNAL (15 MHz)	
1501	AERONAUTICAL MOBILE (OR)	
151	BROADCASTING	
158	FIXED	
1636	MARITIME MOBILE	
1741		





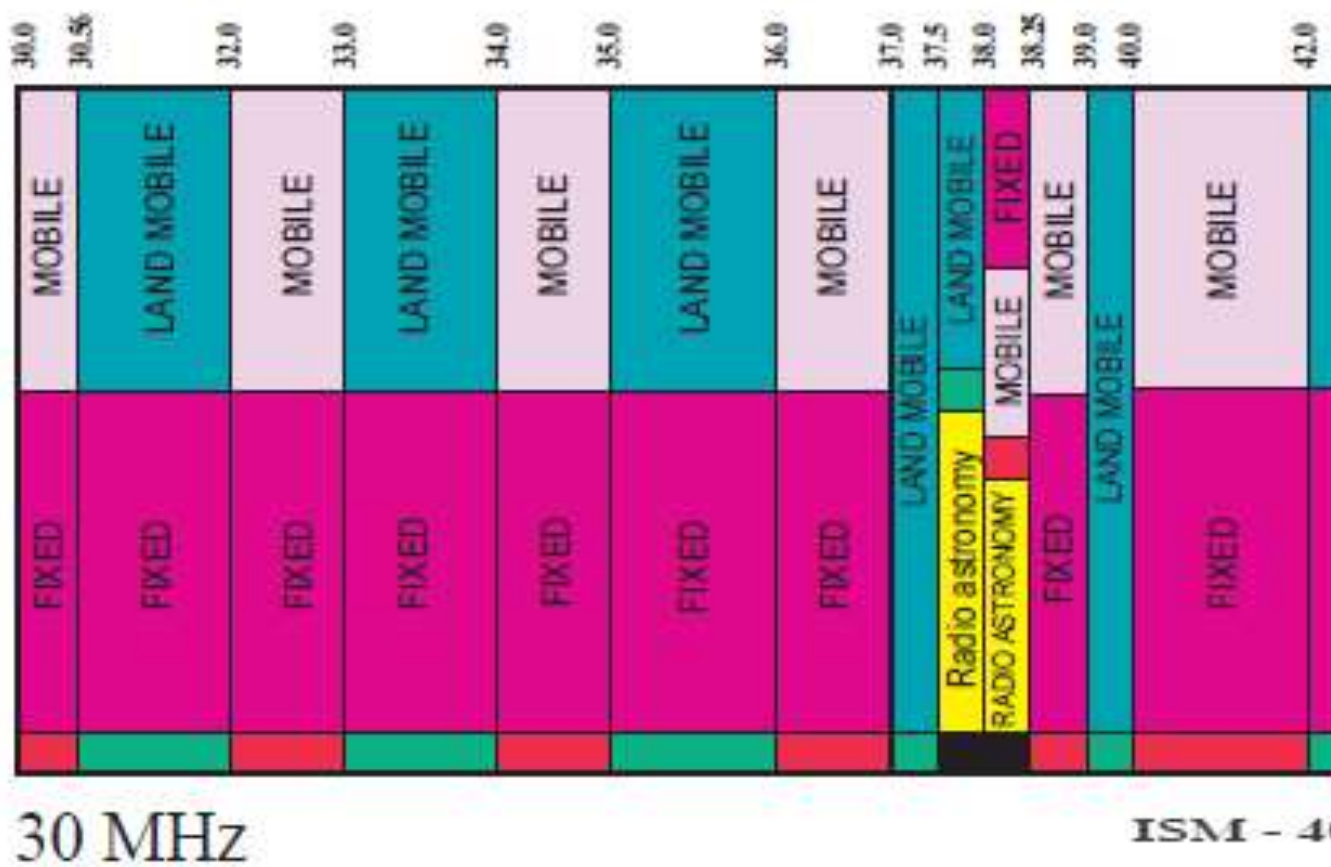


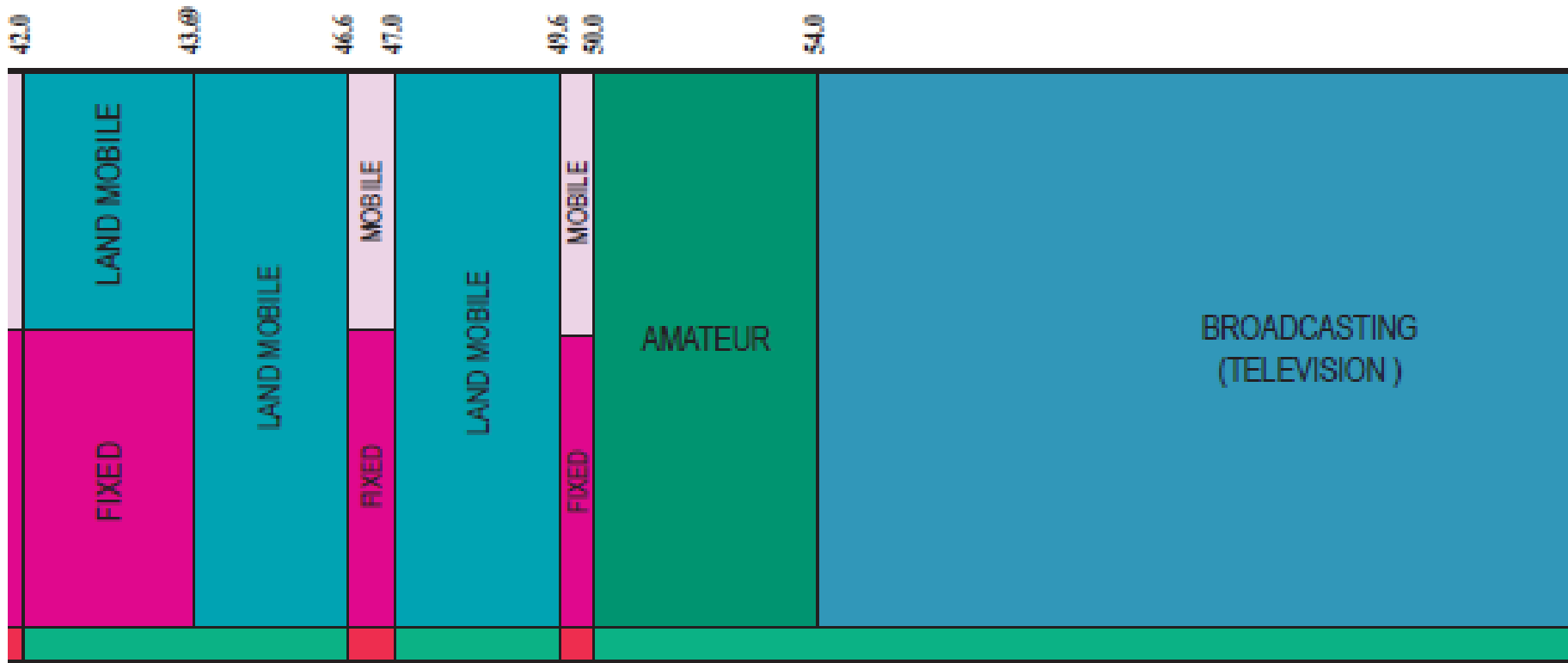
ISM - 27.12 ±.163 MHz

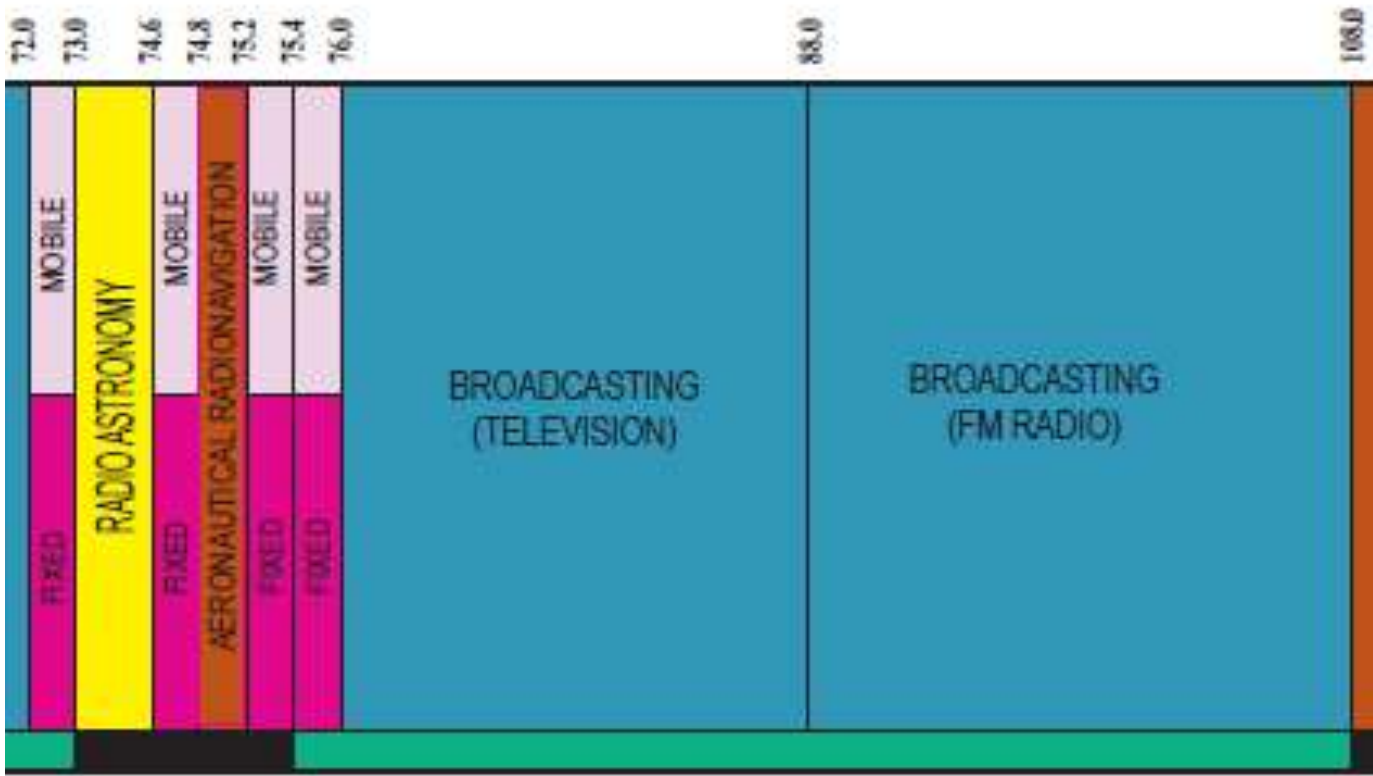
30 MHz

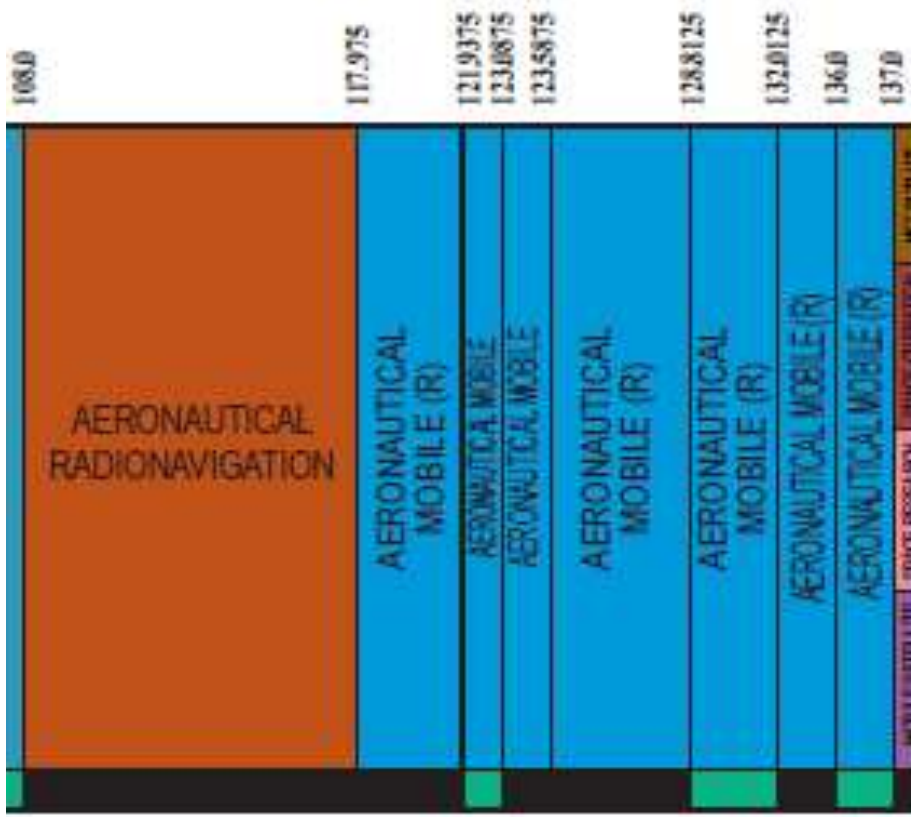


Row 4







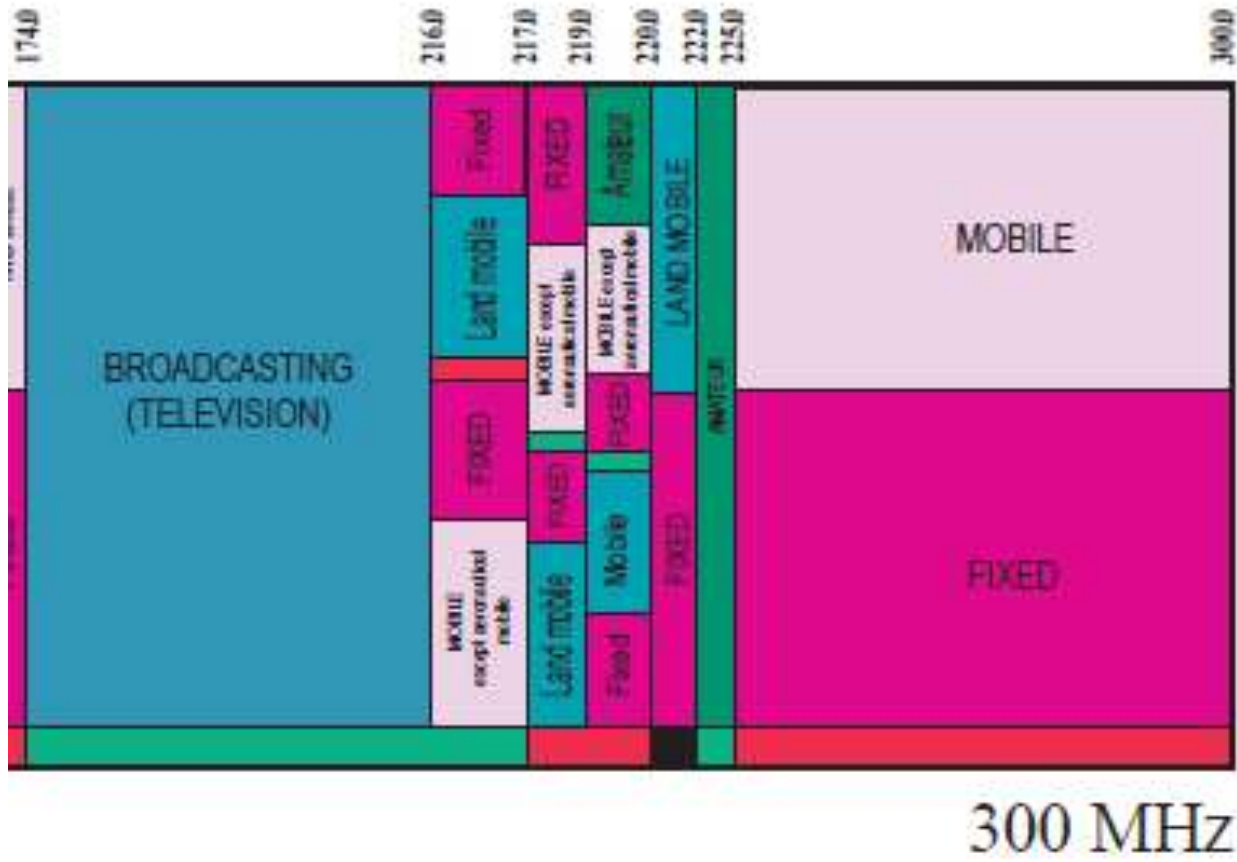


MOBILE SATELLITE (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE OPERATION (space-to-Earth)	MOBILE SATELLITE (space-to-Earth)	137.0
MOBILE SATELLITE (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE OPERATION (space-to-Earth)	MOBILE SATELLITE (space-to-Earth)	137.025
MOBILE SATELLITE (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE OPERATION (space-to-Earth)	MOBILE SATELLITE (space-to-Earth)	137.175
MOBILE SATELLITE (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE OPERATION (space-to-Earth)	MOBILE SATELLITE (space-to-Earth)	137.825
MOBILE SATELLITE (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE OPERATION (space-to-Earth)	MOBILE SATELLITE (space-to-Earth)	138.0
FIXED	FIXED	MOBILE	MOBILE	144.0
FIXED	FIXED	MOBILE	MOBILE	146.0
FIXED	FIXED	MOBILE	MOBILE	148.0
FIXED	FIXED	MOBILE	MOBILE	149.9
FIXED	FIXED	MOBILE	MOBILE	150.05
FIXED	FIXED	MOBILE	MOBILE	150.8
FIXED	FIXED	MOBILE	MOBILE	152.855
FIXED	FIXED	MOBILE	MOBILE	154.0
FIXED	FIXED	MOBILE	MOBILE	156.2475

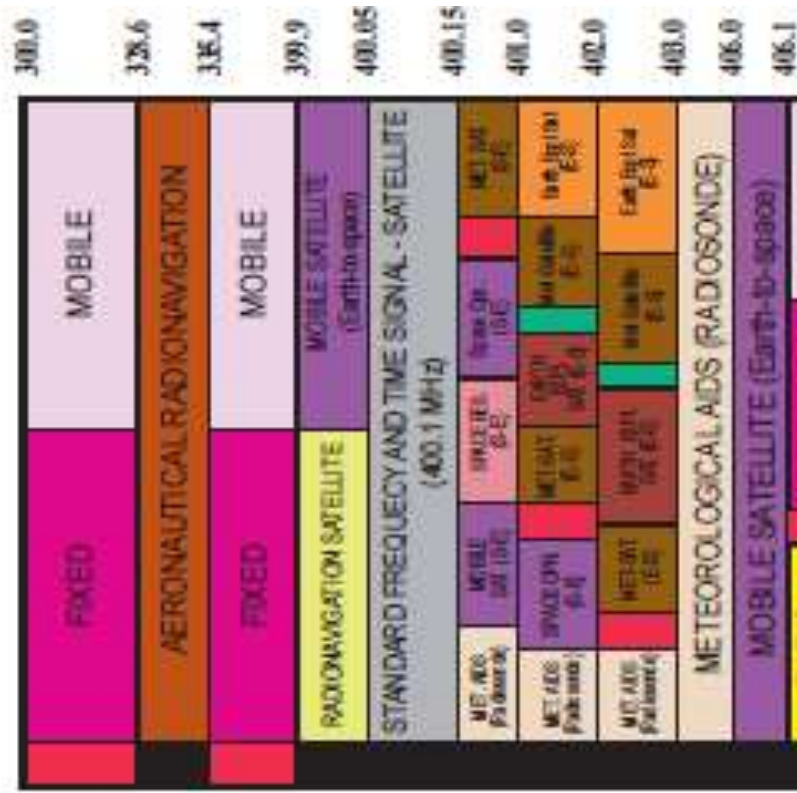


156.2475	MARITIME MOBILE
156.7625	MARITIME MOBILE (distress, urgency, safety and calling)
156.8375	MARITIME MOBILE
157.0375	MARITIME MOBILE
157.1875	MOBILE, except aeronautical mobile
157.45	FIXED
161.575	LAND MOBILE
161.625	MARITIME MOBILE
161.775	LAND MOBILE
161.9625	MOBILE, except aeronautical mobile
161.9875	MARITIME MOBILE (AIS)
162.0125	MOBILE, except aeronautical mobile
163.0375	MARITIME MOBILE (AIS)
1732	FIXED
1734	FIXED
1740	FIXED
	MOBILE
	Land mobile
	MOBILE



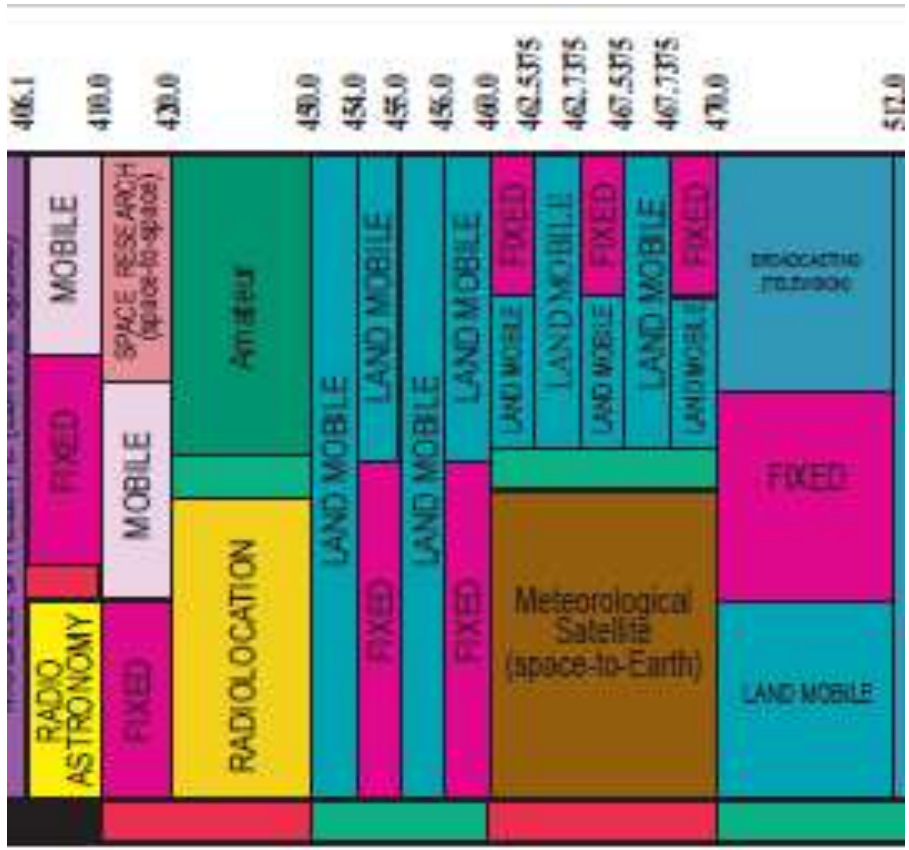


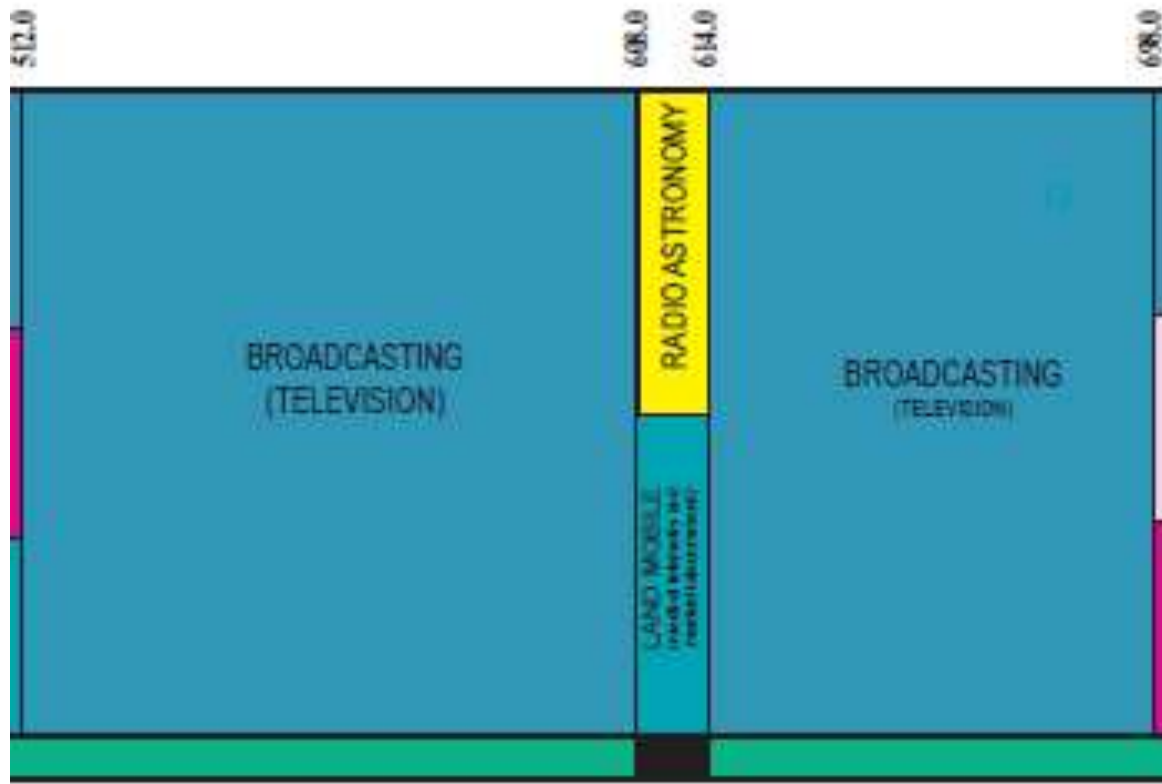
Row five

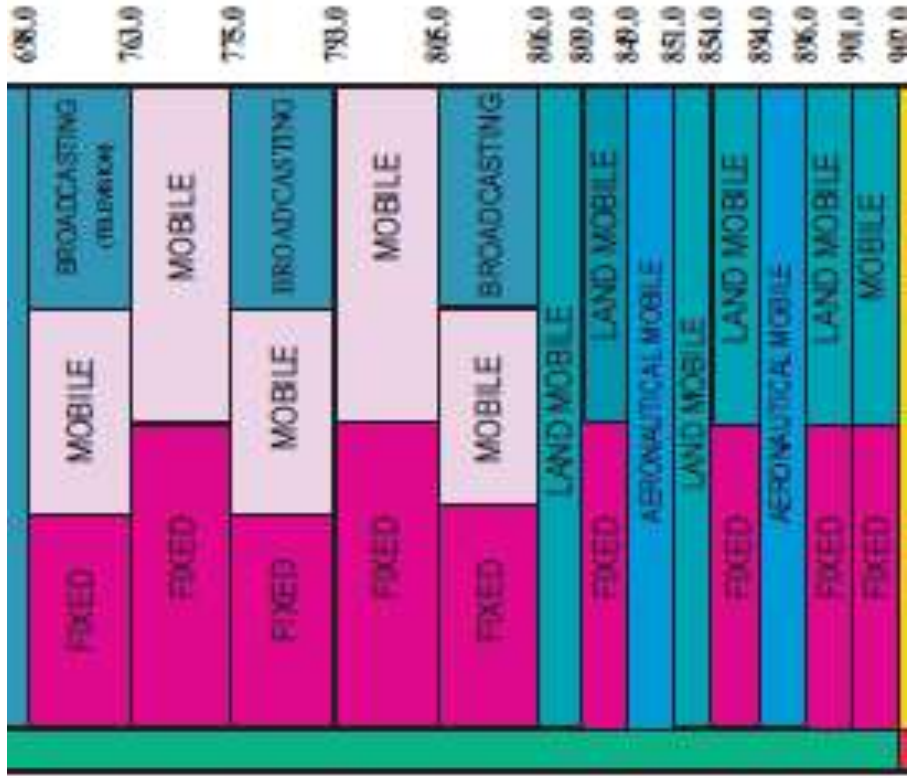


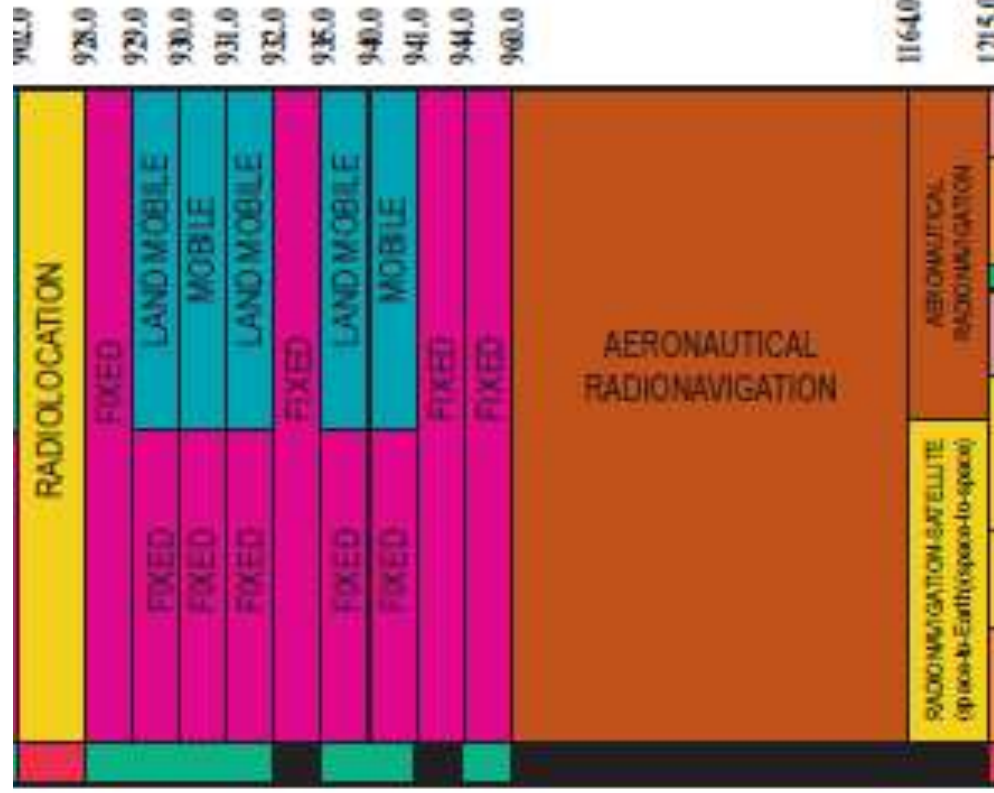
300 MHz











1215.0
1240.0
1300.0
1350.0
1390.0
1392.0
1395.0
1400.0
1427.0



SPECTRUM
An NSF Spectrum Innovation Center

LAND MOBILE (Mobile telephony and land-to-Earth services)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	147.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	149.5
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	140.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	142.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	145.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	155.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	159.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	160.0
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	160.6
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	163.8
FIXED (Satellite) (not geostationary)	LAND MOBILE (Mobile telephony and land-to-Earth services)	Fixed (Satellite)	166.5



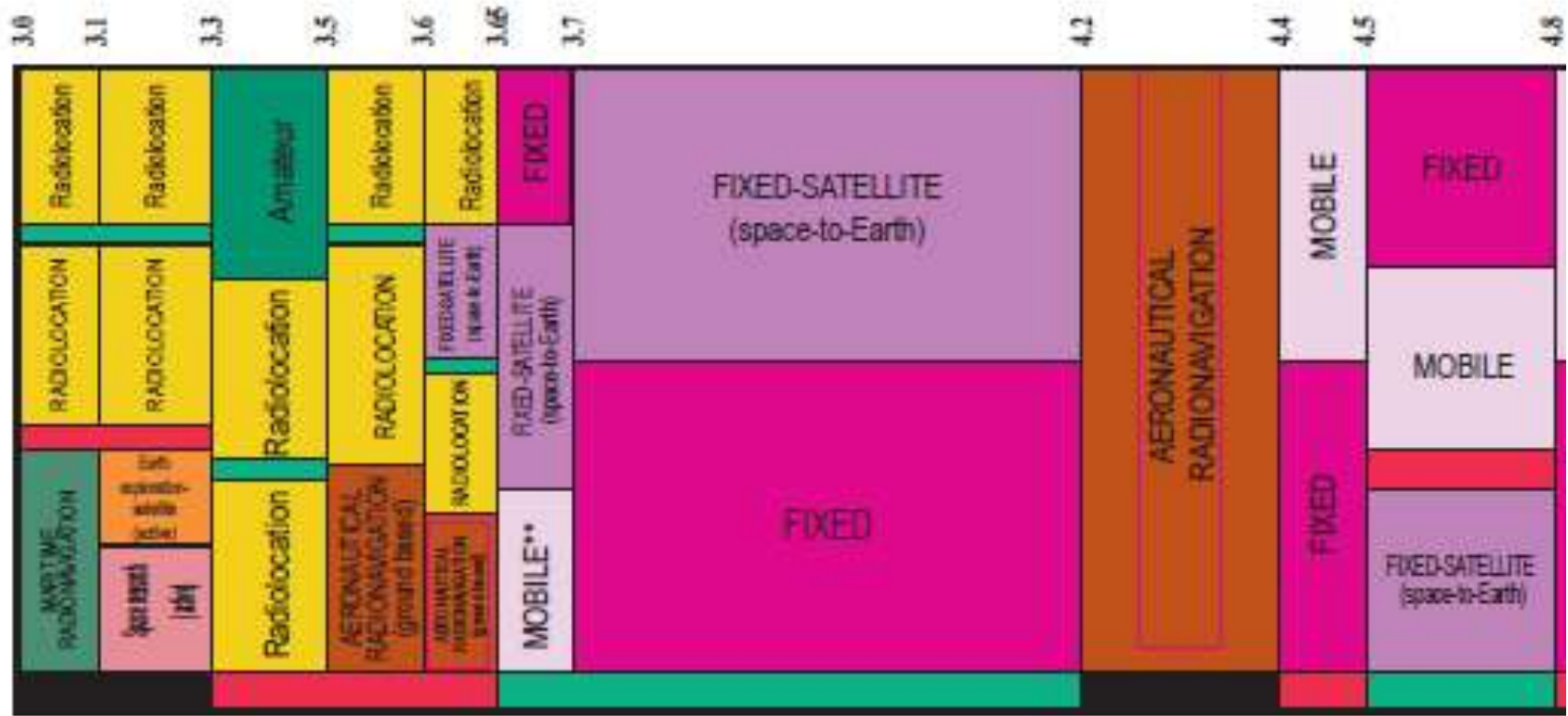
1626.5	MOBILE SATELLITE (Earth-to-space)	
1660.0	RADIO ASTRONOMY	MOBILE SATELLITE (Earth-to-space)
1660.5	RADIO ASTRONOMY	SPACE RESEARCH (passive)
1668.4	METEOROLOGICAL AIDS (Earth-to-Earth)	RADIO ASTRONOMY
1670.0	FIXED	MOBILE **
1675.0	METEOROLOGICAL SATELLITE (space-to-Earth)	METEOROLOGICAL AIDS (Earth-to-Earth)
1695.0	METEOROLOGICAL SATELLITE (space-to-Earth)	Fixed MOBILE **
1710.0	FIXED	MOBILE
1761.0	SPACE OPERATION (Earth-to-space)	MOBILE FIXED
1780.0	SPACE OPERATION (Earth-to-space)	
1850.0	MOBILE	FIXED
2000.0	MOBILE FIXED	MOBILE SATELLITE (Earth-to-space)
2020.0	FIXED	MOBILE
2025.0	SPACE RESEARCH (Earth-to-space)	FIXED
	SPACE RESEARCH (Earth-to-space)	MOBILE
	SPACE RESEARCH (Earth-to-space)	SPACE OPERATION (Earth-to-space) (space-to-space)
	MOBILE	FIXED
	MOBILE	MOBILE SATELLITE (space-to-Earth)
2110.0		
2180.0	MOBILE	FIXED
2200.0	MOBILE	MOBILE SATELLITE (space-to-Earth)



2,200.0
 2,290.0
 2,300.0
 2,305.0
 2,310.0
 2,320.0
 2,345.0
 2,360.0
 2,390.0
 2,395.0



Row Six



3 GHz

4.8	MOBILE											
4.94	MOBILE**											
4.99	RADIO ASTRONOMY	Space Research (passive)										
5.0	AERONAUTICAL RADIO NAVIGATION	RADIO NAVIGATION SATELLITE (Earth to space)										
5.01	AERONAUTICAL RADIO NAVIGATION	RADIO NAVIGATION SATELLITE (space-to-Earth) (space-to-space)										
5.03	AERONAUTICAL RADIO NAVIGATION											
5.15	AERONAUTICAL RADIO NAVIGATION											
5.25	FIXED-SATELLITE (Earth-to-space)											
5.255	RADIO LOCATION	SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)
5.35		SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)
5.46	RADIO LOCATION	RADIOLOCATION	EARTH EXPLORATION-SATELLITE (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION
5.47		RADIOLOCATION	EARTH EXPLORATION-SATELLITE (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION	Earth exploration-satellite (active)	RADIOLOCATION
5.57	MULTI-MEDIA RADIO NAVIGATION	SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)	Earth exploration-satellite (active)	SPACE RESEARCH (active)
	RADIOLOCATION											

5.57
5.6
5.65
5.80
5.85
5.925
6.405
6.525
6.7
6.875
7.025
7.075
7.125
7.145
7.19
7.215
7.25
7.3
7.45
7.55
7.75
7.85
7.9
8.025
8.175
8.215
8.4
8.45
8.5

RADIOLOCATION		WIRE TIME RADIO NAVIGATION	
WIRE TIME RADIO NAVIGATION	METEOROLOGICAL	RADIOLOCATION	
RADIOLOCATION		Amateur	
RADIOLOCATION	Amateur satellite (space-to-Earth)	Amateur	
RADIOLOCATION	MOBILE	FIXED-SATELLITE (Earth-to-space)	Amateur
FIXED		FIXED-SATELLITE (Earth-to-space)	
FIXED-SATELLITE (Earth-to-space)		MOBILE	
FIXED-SATELLITE (Earth-to-space)		FIXED	
FIXED-SATELLITE (Earth-to-space)(space-to-Earth)		FIXED	
MOBILE	FIXED-SATELLITE (Earth-to-space)(space-to-Earth)	FIXED	
MOBILE	FIXED-SATELLITE (Earth-to-space)	FIXED	
MOBILE		FIXED	
FIXED			
FIXED	SPACE RESEARCH (deep space)(Earth-to-space)		
FIXED	SPACE RESEARCH (Earth-to-space)		
FIXED			
FIXED-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)	FIXED	
FIXED-SATELLITE (space-to-Earth)	Mobile-satellite (space-to-Earth)	FIXED	
FIXED-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)	FIXED	
FIXED-SATELLITE (space-to-Earth)	Mobile-satellite (space-to-Earth)	FIXED	
METEOROLOGICAL-SATELLITE (space-to-Earth)		FIXED	
FIXED			
FIXED-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)	FIXED	
EARTH-EXPLORATION-SATELLITE (space-to-Earth)	FIXED-SATELLITE (Earth-to-space)	Mobile-satellite (Earth-to-space)(space-to-Earth)	FIXED
METEOROLOGICAL-SATELLITE (space-to-Earth)	EARTH-EXPLORATION-SATELLITE (space-to-Earth)	FIXED	Mobile-satellite (Earth-to-space)(space-to-Earth)
EARTH-EXPLORATION-SATELLITE (space-to-Earth)	FIXED-SATELLITE (Earth-to-space)	Mobile-satellite (Earth-to-space)(space-to-Earth)	FIXED
FIXED		FIXED	
SPACE RESEARCH (space-to-Earth)			
FIXED			



8.5	RADIOLOCATION	Radiolocation	8.5
8.55	SPACE RESEARCH (active)	Radio-location	8.55
	RADIO LOCATION	Radio-location	
	RADIOLOCATION	Radio-location	
8.65	SPACE RESEARCH (active)	Radio-location	8.65
9.0	SPACE RESEARCH (active)	Radio-location	9.0
9.2	SPACE RESEARCH (active)	Radio-location	9.2
9.3	SPACE RESEARCH (active)	Radio-location	9.3
9.5	SPACE RESEARCH (active)	Radio-location	9.5
	RADIOLOCATION	Radio-location	
9.8	SPACE RESEARCH (active)	Radio-location	9.8
10.0	SPACE RESEARCH (active)	Radio-location	10.0
10.45	SPACE RESEARCH (active)	Radio-location	10.45
10.5	SPACE RESEARCH (active)	Radio-location	10.5
10.55	SPACE RESEARCH (active)	Radio-location	10.55
10.6	SPACE RESEARCH (active)	Radio-location	10.6
10.68	SPACE RESEARCH (active)	Radio-location	10.68
10.7	SPACE RESEARCH (active)	Radio-location	10.7
11.7	SPACE RESEARCH (active)	Radio-location	11.7
12.2	SPACE RESEARCH (active)	Radio-location	12.2
12.7	SPACE RESEARCH (active)	Radio-location	12.7
13.25	SPACE RESEARCH (active)	Radio-location	13.25
13.4	SPACE RESEARCH (active)	Radio-location	13.4
13.75	SPACE RESEARCH (active)	Radio-location	13.75
14.0	SPACE RESEARCH (active)	Radio-location	14.0
14.2	SPACE RESEARCH (active)	Radio-location	14.2
14.4	SPACE RESEARCH (active)	Radio-location	14.4
14.5	SPACE RESEARCH (active)	Radio-location	14.5
14.7145	SPACE RESEARCH (active)	Radio-location	14.7145
14.8	SPACE RESEARCH (active)	Radio-location	14.8
15.1365	SPACE RESEARCH (active)	Radio-location	15.1365
15.35	SPACE RESEARCH (active)	Radio-location	15.35
15.4	SPACE RESEARCH (active)	Radio-location	15.4



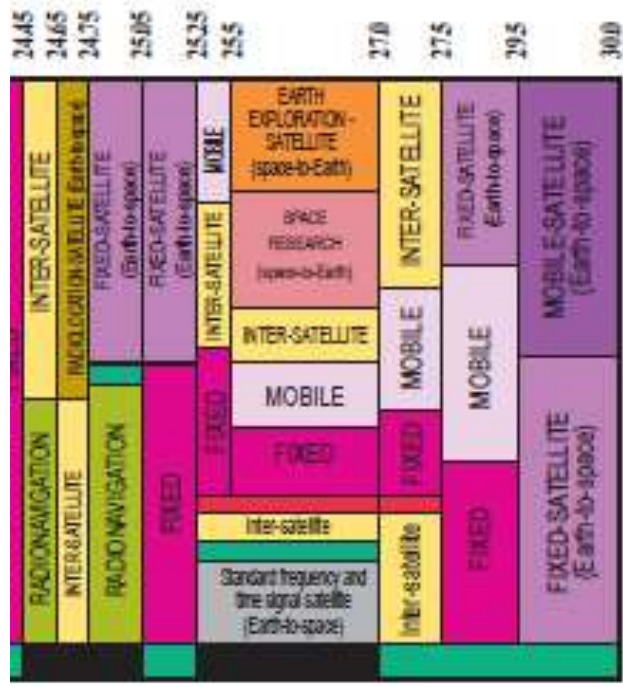
154	AERONAUTICAL RADIO NAVIGATION		
1543	AERONAUTICAL RADIO NAVIGATION	FIXED-SATELLITE (Earth-to-space)	
1563	AERONAUTICAL RADIO NAVIGATION		
157	Radio-location		
166	Radio-location	RADIOLOCATION	
171	Radio-location	Space research - (space-to-space)	
172	Radio-location	RADIOLOCATION	
173	Radio-location	Space research - (space-to-space)	
177	Radio-location	Radio-location	
178	Radio-location	Radio-location	
183	Radio-location	Radio-location	
186	Radio-location	Radio-location	
188	Radio-location	Radio-location	
193	Radio-location	Radio-location	
197	Radio-location	Radio-location	
202	Radio-location	Radio-location	
212	Radio-location	Radio-location	
214	Radio-location	Radio-location	
220	Radio-location	Radio-location	
221	Radio-location	Radio-location	
225	Radio-location	Radio-location	
2255	Radio-location	Radio-location	
2355	Radio-location	Radio-location	
236	Radio-location	Radio-location	
240	Radio-location	Radio-location	
2405	Radio-location	Radio-location	
2425	Radio-location	Radio-location	
2445	Radio-location	Radio-location	



SPECTRUM

An NSF Spectrum Innovation Center





30 GHz

Row 7

30.0	MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)
31.0	MOBILE	FIXED	MOBILE
31.3	SPACE RESEARCH (terrestrial)	SPACE RESEARCH (terrestrial)	SPACE RESEARCH (terrestrial)
31.8	RADIO ASTRONOMY	SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-to-Earth)
32.3	RADIO NAVIGATION	INTER-SATELLITE	RADIO NAVIGATION
33.0	RADIO NAVIGATION	RADIO NAVIGATION	RADIO NAVIGATION
33.4	RADIOLOCATION	RADIOLOCATION	RADIOLOCATION
34.2	Space research (space-to-space) (Earth-to-space)	Radio location	SPACE RESEARCH (space-to-space)
34.7	RADIOLOCATION	RADIOLOCATION	RADIOLOCATION
35.5	Space research (terrestrial)	Radio location	Radio location
36.0		Earth exploration (satellite-to-terrestrial)	Earth exploration (satellite-to-terrestrial)

30GHz



SPECTRUM
An NSF Spectrum Innovation Center

36.0	FIXED	MOBILE	SPACE RESEARCH (space)	EARTH ORBITATION - SATELLITE (Earth)
37.0	MOBILE	FIXED	SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (Earth-to-space)
37.5	MOBILE	FIXED	SPACE RESEARCH (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)
38.0	MOBILE	FIXED	FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)
38.6	MOBILE	FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)	FIXED
39.5	FIXED-SATELLITE (space-to-Earth)	MOBILE	MOBILE	FIXED
40.0	MOBILE	MOBILE	MOBILE	FIXED
40.5	MOBILE	MOBILE	MOBILE	FIXED
41.0	MOBILE	MOBILE	MOBILE	FIXED
42.0	MOBILE	MOBILE	MOBILE	FIXED



BIODIVERSITY SATELLITE	BROADCASTING	MOBILE	FIXED	42.5
RADIO ASTRONOMY	FIXED-SATELLITE (Earth-to-space)	MOBILE*	FIXED	43.5
MOBILE-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space)			45.5
RADIO-NAVIGATION-SATELLITE	MOBILE-SATELLITE (Earth-to-space)	MOBILE	MOBILE	46.9
RADIO-NAVIGATION-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)	MOBILE	FIXED	47.0
AMATEUR	AMATEUR-SATELLITE			47.2
FIXED-SATELLITE (Earth-to-space)	MOBILE	MOBILE	FIXED	48.2
FIXED-SATELLITE (Earth-to-space)	MOBILE	MOBILE	FIXED	50.2
SPACE RESEARCH (passive)	EARTH-EXPLORATION-SATELLITE (passive)			50.4
MOBILE-SATELLITE (Earth-to-space)	MOBILE	MOBILE	MOBILE	51.4
FIXED-SATELLITE (Earth-to-space)	FIXED			52.6
MOBILE	SPACE RESEARCH (passive)			54.25
EARTH-EXPLORATION-SATELLITE (passive)	SPACE RESEARCH (passive)			55.78
SPACE RESEARCH (passive)	INTER-SATELLITE			
MOBILE	INTER-SATELLITE			
MOBILE	SPACE RESEARCH (passive)			56.9

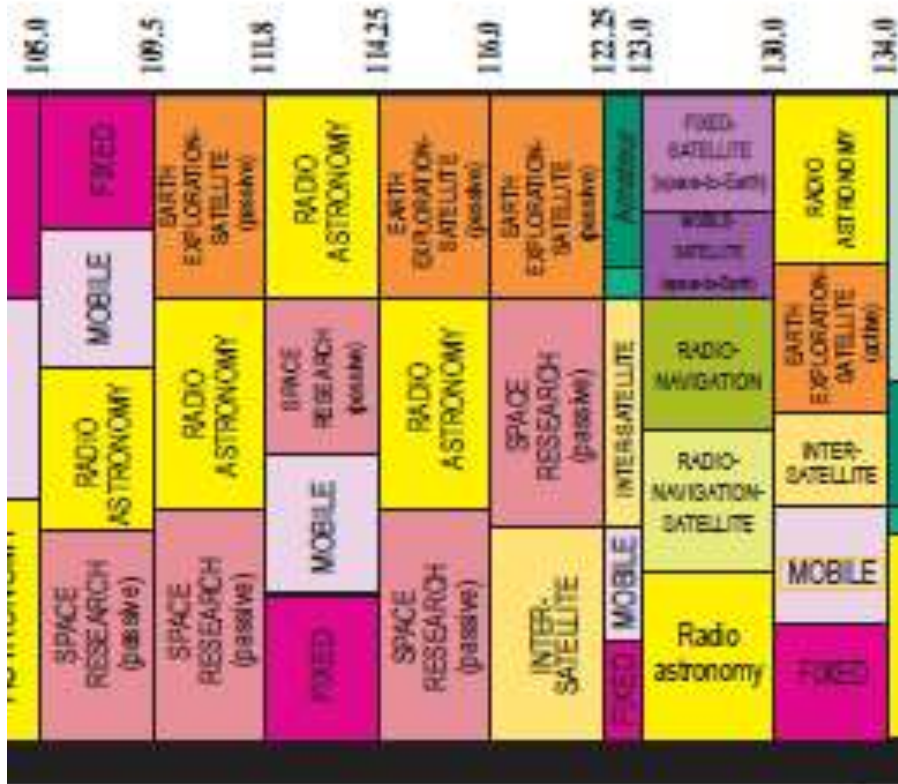


59.7	INTER-SATELLITE		INTER-SATELLITE	
57.0	FIXED	INTER-SATELLITE	FIXED	INTER-SATELLITE
58.2	MOBILE	MOBILE	MOBILE	MOBILE
59.0	MOBILE	MOBILE	MOBILE	MOBILE
59.3	MOBILE	MOBILE	MOBILE	MOBILE
64.0	MOBILE	MOBILE	MOBILE	MOBILE
65.0	MOBILE	MOBILE	MOBILE	MOBILE
66.0	MOBILE	MOBILE	MOBILE	MOBILE
71.0	MOBILE	MOBILE	MOBILE	MOBILE
74.0	MOBILE	MOBILE	MOBILE	MOBILE

ISM - 61.25±0.25 GHz



SPECTRUM
An NSF Spectrum Innovation Center



ISM - 122.5 ± 0.50 GHz

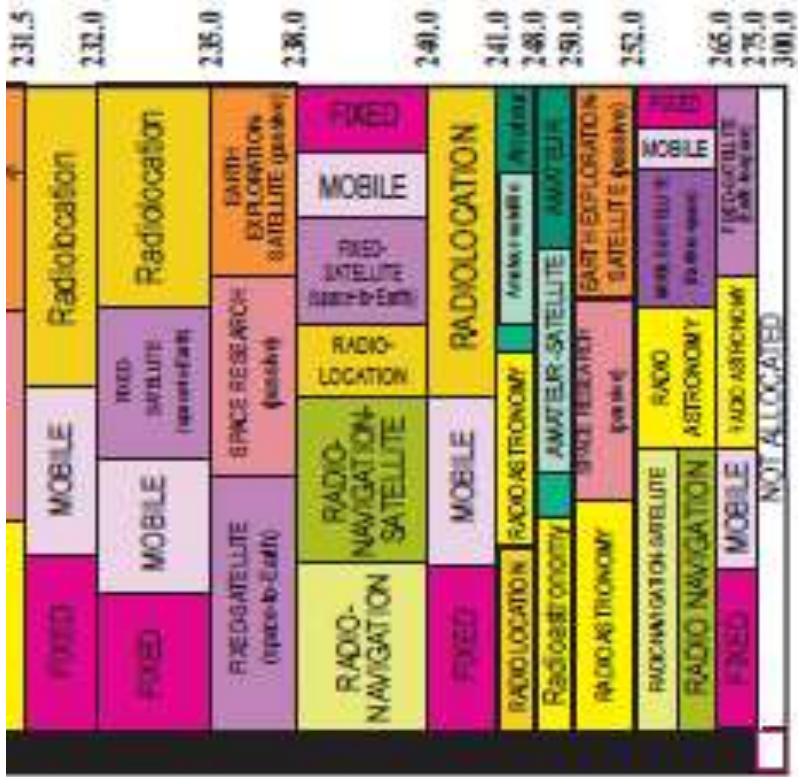


Radio astronomy	AMATEUR	AMATEUR - SATELLITE	134.0
RADIO LOCATION	RADIO ASTRONOMY	Amateur - satellite	136.0
FIXED	MOBILE	RADIO ASTRONOMY	141.0
SPACE RESEARCH (positive)	RADIO ASTRONOMY	INTERFEROMETER SATELLITE (positive)	148.5
FIXED	MOBILE	RADIO ASTRONOMY	151.5
RADIO ASTRONOMY	MOBILE	EARTH EXPLORATION SATELLITE (positive)	155.5
FIXED	MOBILE	FIXED- SATELLITE (space-to-Earth)	158.5
EARTH EXPLORATION- SATELLITE (positive)	MOBILE	RADIO ASTRONOMY	164.0
FIXED	MOBILE	FIXED- SATELLITE (space-to-Earth)	167.0
FIXED	MOBILE	INTER- SATELLITE	174.5
INTER- SATELLITE	MOBILE	INTER- SATELLITE	174.8
RADIO ASTRONOMY	MOBILE	SPACE RESEARCH SATELLITE (positive)	182.0
		SPACE RESEARCH SATELLITE (positive)	185.0



185.0	SPACE RESEARCH (passive)	INTER-SATELLITE	EARTH EXPLORATION-SATELLITE (passive)
190.0	SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive)	
191.8	RADIO/NAVIGATION RADIO/NAVIGATION-SATELLITE	INTER-SATELLITE	MOBILE SATELLITE
200.0	RADIO ASTRONOMY	EARTH EXPLORATION-SATELLITE (passive)	SPACE RESEARCH (passive)
209.0	FIXED MOBILE	FIXED SATELLITE (Earth-to-space)	RADIO ASTRONOMY
217.0	FIXED-SATELLITE (Earth-to-space)	SPACE RESEARCH (passive)	MOBILE
236.0	RADIO ASTRONOMY	SPACE RESEARCH (Passive)	EARTH EXPLORATION-SATELLITE (Passive)
231.5			





ISM - 245.0 ± 1 GHz

300 GHz

