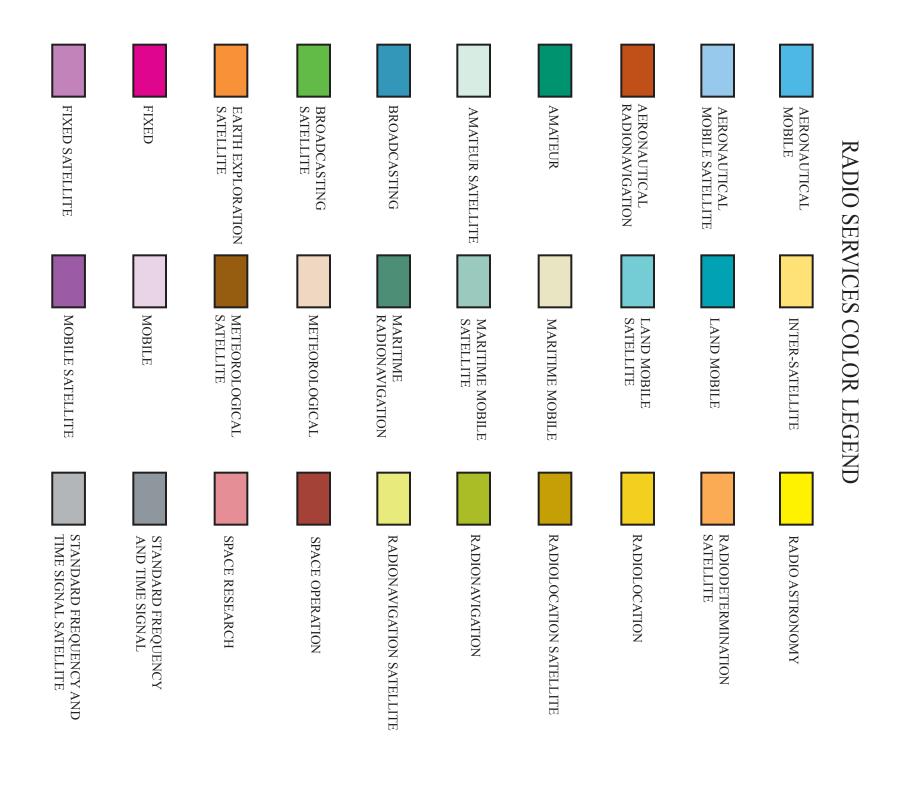
Management </tr

「大けくしけ」と

THE RADIO SPECTRUM



| ALLOCATION USAGE DESIGNATION | NON-FEDERAL EXCLUSIVE | FEDERAL EXCLUSIVE | ACTIVITY CODE |
|------------------------------|-----------------------|----------------------------|---------------|
| ESIGNATION | | FEDERAL/NON-FEDERAL SHARED | |

Primary

FIXED

Capital Letters

Secondary

Mobile

1st Capital with lower case letters

This chart is a graphic single-point-in-time portrayal of the Table of Frequency Allocations used by the FCC and NTIA. As such, it may not completely reflect all aspects, i.e. footnotes and recent changes made to the Table of Frequency Allocations. Therefore, for complete information, users should consult the Table to determine the current status of U.S. allocations.

U.S. DEPARTMENT OF COMMERCE

National Telecommunications and Information Additional Telecommunications.

Trequency Allocations. Therefore, for complete information, users should consult the Table to determine the rent status of U.S. allocations.

U.S. DEPARTMENT OF COMMERCE

National Telecommunications and Information Administration

Office of Spectrum Management

JANUARY 2016

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30GHz * EXCEPT AERONAUTICAL MOBILE

* EXCEPT AERONAUTICAL MOBILE

3.0 300 KHZ 3MHz 30 MHz 0 kHz 300 MHz MOBILE AERONAUTICAI MOBILE (R) 30.56 MOBILE GHz AERONAUTICAL MOBILE (OR) FIXED LAND MOBILE AERONAUTICAL RADIONAVIGATION MOBILE 32.0 MOBILE except aeronautical mobile (R) MOBILE FIXED MOBILE DIONAVIGATION SATELLI Aeronautical Mobile RADIONAVIGATIO ANDARD FREQUECY AND TIME SIGNAL - SATELLI FIXED LAND MOBILE (400.1 MHz) INTER-SATELLITE FIXED **MOBILE** MOBILE** 402.0 Radiolocation METEOROLOGICAL AIDS (RADIOSONDE) LAND MOBILE MOBILE FIXED MOBILE MOBILE SPACE RESEA (space-to-spa MOBILE MOBILE RADIOLOCATION Amateur IO ASTRONOMY MOBILE FIXE MOBILE MARITIME MOBILE MOBILE RADIONAVIGATION Aeronautical Mobile FIXED-SATELLITE (space-to-Earth) MOBILE LAND MOBILE **AERONAUTICAL** MARITIME FIXED-SATELLITE (space-to-Earth) MOBILE RADIONAVIGATION MOBILE 460.0 MOBILE AERONAUTICAL 462.5375 RADIONAVIGATION MOBILE 462.7375 467.5375 467.7375 4.438 FIXED LAND MOBILE MOBILE MOBILE FIXED 43.69 except aeronautical mobile (R) SATELLITE LAND MOBILE 4.7 512.0 AERONAUTICAL MOBILE (OR) FIXED MOBILE MOBILE MOBILE (distress and calling) MOBILE** MOBILE FIXED MARITIME MOBILE RADIO ASTRONOMY LAND MOBILE STANDARD FREQUENCY AND TIME SIGNAL (5 MHz) 5.005 MARITIME MOBILE RADIONAVIGATION MOBILE 49.0 50.0 DIONAVIGATION-SATELLITE (ships only) (radiobeacons) FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE xcept aeronautical mobile AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) FIXED-SATELLITE (Earth-to-space) 54.0 AERONAUTICAL MOBILE (R) RADIOLOCATION \$ RADIO ASTRONOMY LORATION-SATELLITE (passive) SPACE RESEARCH (passive) AERONAUTICAL MOBILE (OR) RADIOLOCATION | Register MOBILE except aeronautical mobile (R) SATELLITE SPACE RESEARCH (passive) ARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) SATELLIT BROADCASTING INTER-SATELLITE SPACE RESEARCH (passive) MARITIME MOBILE 698.0 MARITIME MOBIL MOBILE SATELLIT 6.525 AERONAUTICAL MOBILE (R) RADIOLOCATION MOBILE 6.685 AERONAUTICAL MOBILE (OR) 6.765 MOBILE RADIOLOCATION MOBILE FIXED xcept aeronautical mobile (R) SPACE RESEARCH MOBILE AMATEUR SATELLITE RADIOLOCATION MOBILE FIXED-SATELLITE AMATEUR MOBILE TANDARD FREQUENCY AND TIME SIGNAL (20 kHz) MOBILE BROADCASTING RADIO ASTRONOMY 854.0 7.025 MOBILE FIXED-SATELLITE (Earth-to-space) LAND MOBILE MOBILE ICAL MOBILE MOBILE LAND MOBILE MOBILE 901.0 MOBILE SPACE RESEARCH (deep space)(Earth-to-space) MOBILE Amateur-satellite 76.0 RADIOLOCATION MARITIME MOBILE SPACE RESEARCH (Earth-to-space) 929.0 MARITIME MOBILE MOBILE 8.815 931.0 AERONAUTICAL MOBILE (R) LAND MOBILE AERONAUTICAL MOBILE (OR) 9.04 935.0 FIXED-SATELLITE (space-to-Earth) Mobile-satellite (space-to-Earth) 940.0 MOBILE 944.0 BROADCASTING 960.0 88.0 MARITIME MOBILE STANDARD FREQUENCY AND TIME SIGNAL (10 MHz) 10.005 RADIO-LOCATION ASTRONOMY MOBILE 10.1 10.15 11.175 RADIO- RADIO ASTRONOM 1164.0 MOBILE AERONAUTICAL MOBILE (OR) 11.275 1215.0 AERONAUTICAL MOBILE (R) Radiolocation 108.0 Radiolocation 11.6 BROADCASTING RESEARCH ASTRONOMY 102.0 MOBILE MOBILE MOBILE ** MARITIME 1392.0 MOBILE MOBILE ** 1395.0 RESEARCH MOBILE 117.975 ASTRONOMY 1400.0 AERONAUTICAL RADIO ASTRONOMY SPACE RESEARCI (passive) 13.26 1427.0 MOBILE (R) AERONAUTICAL MOBILE (R) RESEARCH 121.9375 ASTRONOMY AERONAUTICAL MOBILE 1429.5 123.0875 13.41 FIXED-SATELLITE (space-to-Earth) AERONAUTICAL MOBILE 123.5875 RADIO 1430.0 MOBILE except aeronautical mob RESEARCH FIXED-SATELLITE (space-to-Earth) 13.57 **ASTRONOMY** AERONAUTICAL 1432.0 BROADCASTING MOBILE ** MOBILE (R) 13.87 SPACE RESEARCH 1435.0 O-SATELLITE (Earth-to-space) MOBILE MOBILE (aeronautical telemetry) Mobile 128.8125 ASTRONOMY 1525.0 AERONAUTICAL STANDARD FREQUENCY AND TIME SIGNAL (60 kHz except aeronautical mobile MOBILE SATELLITE (space-to-Earth) 116.0 MOBILE (R) 1559.0 132.0125 AMATEUR SATELLITE MARITIME MOBILE RESEARCH AERONAUTICAL MOBILE (R) 136.0 1610.0 AERONAUTICAL MOBILE (R) 137.0 Mobile 1610.6 RADIODETERMINATION-SATELLITE (Earth-to-space) 137.025 STANDARD FREQUENCY AND TIME SIGNAL (15 MHz) 15.01 1613.8 AERONAUTICAL MOBILE (OR) 137.175 15.1 1626.5 137.825 Mobile-satellite (space-to-Earth) FIXED-SATELLITE (Earth-to-space MOBILE SATELLITE(Earth-to-space) BROADCASTING SATELLITE ASTRONOMY MOBILE BROADCASTING 1660.0 138.0 RADIO ASTRONOMY AMATEUR - SATELLIT FIXED MOBILE 15.8 1660.5 SPACE RESEARCH (passive AMATEUR- SATELLITE FIXED SPACE RESEARCH MOBILE
SPACE RESEARCH Mobile 148.0 RADIO ASTRONOM MOBILE 16.36 149.9 MOBILE ** ADIO ASTRONOMY SPACE RESEARCH (passive) SA MARITIME 1675.0 METEOROLOGICAL AIDS (radiosonde) MOBILE RADIO ASTRONOMY RADIOLOCATIO MOBILE 150.05 17.41 MOBILE MOBILE FIXED-SATELLITE (Earth-to-space) 150.8 Fixed MOBILE * 17.48 152.855 BROADCASTING MOBILE 154.0 MOBILE AERONAUTICAL MOBILE (R) **RADIONAVIGATION** SPACE OPERATION (Earth-to-space) MOBILE 17.97 (space-to-Earth) 156.2475 1780.0 AERONAUTICAL MOBILE (OR) MARITIME MOBILE 18.03 Radiolocation RADIOLOCATION RADIO SPACE OPERATION (Earth-to-space) 156.7625 SPACE RESEARC IARITIME MOBILE (distress, urgency, safety and calling ASTRONOMY 18.068 (passive) MOBILE 156.8375 2000.0 AMATEUR SATELLITE MARITIME MOBILE FIXED-SATELLITE 157.0375 2020.0 18.168 MOBILE MARITIME MOBILE AMATEUR MOBILE 157.1875 18.78 2025.0 MOBILE except aeronautical mobile MARITIME MOBILE 157.45 MARITIME MOBILE MOBILE 19.02 161.575 19.68 FIXED-SATELLITE (space-to-Earth) 161.625 MARITIME MOBILE SPACE RESEARCH 2110.0 19.8 RADIOLOCATION (passive) 161.775 MOBILE 19.99 2180.0 MOBILE except aeronautical mobile STANDARD FREQUENCY AND TIME SIGNAL (20 MHz) SPACE RESEARCH 161.9625 FIXED-SATELLITE (space-to-Earth) 20.01 MOBILE MARITIME MOBILE (AIS) Mobile (passive) 161.9875 FIXED-SATELLITE (space-to-Earth) 2200.0 21.0 MOBILE except aeronautical mobile MARITIME 130 162.0125 AMATEUR SATELLITE MOBILE-SATELLITE (space-to-E MOBILE MARITIME MOBILE (AIS) 21.45 163.0375 FIXED-SATELLITE (space-to-Earth

Fixed by the search of the space section of the space sectio MARITIME MOBILE 21.85 MARITIME MOBILE 2290.0 MOBILE 21.924 MOBILE** MOBILE SPACE RESEARCH MOBILE 22.0 except aeronautical mobile 2300.0 173.2 22.855 173.4 MOBILE MARITIME MOBILE MOBILE MARITIME MOBILE 23.0 ADIOLOCATION MOBILE** MOBILE** 174.0 SPACE RESEARCI 2320.0 MOBILE (distress and calling) 23.35 2345.0 MOBILE MARITIME MOBILE ON MOBILE MOBILE 2360.0 MOBILE 24.89 AMATEUR SATELLITE MARITIME MOBILE 2390.0 MOBILE INTER-SATELLI MARITIME MOBILE MOBILE 24.99 ED-SATELLITE (Earth-to-space) RADIO 2395.0 STANDARD FREQ. AND TIME SIGNAL (25 MHz) MOBILE 25.01 **ASTRONOMY** 2417.0 SPACE RESEARCH (Passive) 25.21 Radiolocation AMATEUR-SATELLITE MOBILE MOBILE SATE (space-to-Ear AERONAUTICAL RADIONAVIGATION 216.0 MOBILE except aeronautical mobile 2483.5 MOBILE except aeronautical mobile 25.55 231.5 RADIO ASTRONOMY MOBILE 25.67 Radiolocation 2495.0 200 217.0 219.0 MOBILE** MOBILE except aeronautical mobile

FIXED MOBILE except aeronautical mobile 26.1 FIXEDSATELLITE
(Space-to-Earth)

SPACE RESEARCH

EARTH
EXPLORATION-2500.0 26.175 24.65 24.75 MOBILE MOBILE** 26.48 220.0 222.0 225.0 2655.0 FIXED-SATELLITE
(Earth-to-space)
FIXED-SATELLITE
(Earth-to-space)
INTER-SATELLITE
MOBILE RADIONAVIGATION 26.95 25.05 STANDARD FREQ. AND TIME SIGNAL (2500kHz) 26.96 MOBILE FIXED SATELLITE (Space-lo-Earth)

RADIOLOCATION 2690.0 27.23 MOBILE except aeronautical mobile SPACE RESEARCH (passive) LAND MOBILE MOBILE 2700.0 27.54 Radiolocation METEOROLOGICAL MOBILE N RADIOASTRONOMY Amateur-satellite Capasive Satellite (passive)

ON-SATELLITE RADIO (Earth-to-space) (Earth-to-spac 241.0 248.0 250.0 300 GHz MOBILE AIDS AMATEUR SATELLITE MOBILE INTER-SATELLITE 300 MHz 2900.0 30 GHz 29.7 30 MHz 300 kHz FIXED-SATELLITE (Earth-to-space) 29.8 ω 252.0 29.89 29.91 30.0 Z GHz MOBILE MOBILE-SATELLITE (Earth-to-space) FIXED-SATELLITE (Earth-to-space)

PLEASE NOTE: THE SPACING ALLOTTED THE SERVICES IN THE SPECTRUM SEGMENTS SHOWN IS NOT PROPORTIONAL TO THE ACTUAL AMOUNT OF SPECTRUM OCCUPIED.