

Kiribati Radiofrequency Spectrum Plan 2014

including

General Information

Communications Commission of Kiribati September 2014

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Prepared by the Communications Commission of Kiribati.

Foreword

Substantial content in this publication is based on the Australian Radiofrequency Spectrum Plan © Commonwealth of Australia (Australian Communications and Media Authority) 2013.

The Republic of Kiribati is grateful to the Australian Communications and Media Authority

for its agreement in this matter.

This publication is divided into two chapters.

Chapter 1 General Information is intended to provide an introduction to the basis of the 2014

Kiribati Radiofrequency Spectrum Plan, broad guidance in its use, and information relevant to

the international framework from which it is developed. This chapter has no legislative effect.

Chapter 2 is the 2014 Kiribati Radiofrequency Spectrum Plan (Spectrum Plan), prepared

under section 34(2) of the Communications Act 2012, and includes the Table of Frequency

Band Allocations.

The International Telecommunication Union (ITU) convenes World Radiocommunication

Conferences (WRCs) at approximately four yearly intervals. These conferences make

internationally agreed decisions and recommendations on the use of the radiofrequency

spectrum. The CCK will review the Spectrum Plan from time to time, and amend where needed

to reflect the frequency allocation recommendations of the most recent WRC.

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CHAPTER 1 GENERAL INFORMATION

Part 1 General

1 Introduction

The Kiribati Radiofrequency Spectrum Plan 2014 (the Spectrum Plan) divides the radiofrequency spectrum in Kiribati into frequency bands and specifies the purposes for which the bands may be used. This process is referred to as the allocation of frequency bands to radiocommunications services.

This chapter provides general information on the development and application of the Spectrum Plan, and is provided for informative purposes only.

Chapter 2 of the document is the Spectrum Plan. The Communications Commission of Kiribati is legally obligated to use the Spectrum Plan to plan the allocation, reallocation and use of spectrum in Kiribati.

2 The International Framework

The Republic of Kiribati is a signatory to the Constitution and Convention of the International Telecommunication Union (ITU), done at the Additional Plenipotentiary Conference in Geneva on 22 December 1992 and amended at subsequent Plenipotentiary Conferences (Kyoto, 1994, Minneapolis, 1998, Marrakesh, 2002, Antalya, 2006, Guadalajara, 2010). The ITU Radio Regulations are revised by ITU World Radiocommunication Conferences, normally held every four years. The basis for the structure of the Spectrum Plan is the Table of Frequency Allocations contained in Article 5 of the ITU Radio Regulations. The ITU Radio Regulations Table of Frequency Allocations lists frequency bands allocated to services according to three geographic Regions, as depicted in the chart at Part 2 of this Chapter. These Regions are defined as Regions 1, 2 and 3. Kiribati is located in Region 3.

Note: that where the words "regions" or "regional" are without a capital "R" in this document or in the ITU Radio Regulations, they do not relate to the three Regions defined for the purposes of frequency allocation.

The ITU Radio Regulations Table of Frequency Allocations is reproduced in column 1 of the Table of Frequency Band Allocations in the Spectrum Plan, and includes the associated footnotes for the three Regions. The footnote numbers are those listed in Article 5 of the ITU Radio Regulations, except that the ÷5.¢prefix has been removed.

3 Kiribati Variations to the ITU Table of Frequency Allocations

The Kiribati allocations are listed in column 2 of the Table of Frequency Band Allocations in the Spectrum Plan, and include Kiribati footnotes (denoted as KIR) along with footnotes relevant to Kiribati.

Whilst the Kiribati allocations are broadly aligned with the ITU requirements for Region 3, a number of variations exist. In accordance with No. 4.4 of the ITU Radio Regulations, such variations are subject to the condition that the associated radio installations do not cause harmful interference to the radio services or communications of other ITU Members that operate in accordance with the provisions of the ITU Radio Regulations, and that the possibility of harmful interference from such services and communications is accepted. The Kiribati variations may also be subject to any constraints imposed by footnotes in the table, for example footnote Nos. 53 and 180.

4 Definitions for Terms and Services

The ITU has specific definitions for terms and services used in the Radio Regulations. These may be found in Article 1 of the ITU Radio Regulations. In most instances the corresponding definitions contained in the Spectrum Plan reflect the intent of the ITU definitions, although in some cases they have been restructured to align with Kiribati requirements¹.

5 Status of Services

In this document and the ITU Radio Regulations, the definitions for radiocommunications services are rendered in terms of basic characteristics of those services. To assist interference management between services, services are also described by their relative status within allocated frequency bands. Within a particular band, a service will, in most cases, have a primary or secondary status; these terms are described in more detail in the Spectrum Plan. Interference management matters, where included in footnotes, are effected also through the application of those footnotes.

It should be noted as well that a band may be listed in a footnote as being allocated to a service "on a primary basis" in an area smaller than a Region, or in a particular country (including Kiribati). In this case, the primary status applies only within that area or country.

Part 2 Geographic Regions

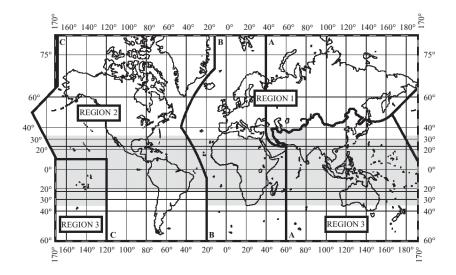
6 Explanation of the Regional Chart

In the chart on the next page:

- Region 1 includes the area limited on the east by line A and on the west by line B, excluding any of the territory of the Islamic Republic of Iran which lies between these limits. It also includes the whole of the territory of Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Turkey and Ukraine and the area to the north of the Russian Federation which lies between lines A and C;
- Region 2 includes the area limited on the east by line B and on the west by line C;
 and
- Region 3 includes the area limited on the east by line C and on the west by line A, except any of the territory of Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Turkey and Ukraine and the area to the north of the Russian Federation. It also includes that part of the territory of the Islamic Republic of Iran lying outside of those limits.

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¹ The definitions restructured to align with Kiribati requirements are administration, broadcasting service and telecommunications.



A full description of where the lines A, B, and C are to be drawn on a map may be found in Nos. **5.6** to **5.9** of the ITU Radio Regulations.

A sub-Region is an area consisting of two or more countries in the same Region.

The Tropical Zone, as defined in Nos. **5.16** to **5.21** of the ITU Radio Regulations, is represented by the shaded part of the chart, and consists of:

- the whole of that area in Region 2 between the Tropics of Cancer and Capricorn; and
- the whole of that area in Regions 1 and 3 contained between the parallels 30° north and 35° south with the addition of:
 - (i) the area contained between the meridians 40° east and 80° east of Greenwich and the parallels 30° north and 40° north; and
 - (ii) that part of Libyan Arab Jamahiriya north of parallel 30° north.

In Region 2, the Tropical Zone may be extended to parallel 33° north, subject to special agreements between the countries concerned in that Region.

Part 3 The Table of Frequency Band Allocations

7 Interpretation

In interpreting the Table of Frequency Band Allocations in the Spectrum Plan:

- the Table covers the radio frequency spectrum from 8.3 kHz to 420 THz, which has been divided into frequency bands within which certain designated radiocommunications services may operate;
- frequency bands are shown in increasing frequency order from 8.3 kHz to 420 THz;
- column 1 of the Table, which reflects the provisions of the ITU Radio Regulations in the allocation of frequency bands to radiocommunications services worldwide, is shown for information only; and
- column 2, details the Kiribati allocation of frequency bands to

radiocommunications services.

8 Additional Allocations

Where a band is shown in a footnote of the Table as "also allocated" to one or more services in an area or country within a Region (e.g. Kiribati), this is in addition to the allocation within the Region shown in the Table.

If the footnote does not include any restriction on the services concerned (for example, allocation only on a secondary basis) apart from the restriction to operate only in a particular area or country, stations of those services have equal status with stations of other primary services to which the band is allocated in the Table, but only within that area or country.

9 Alternative Allocations

Where a band is shown in a footnote of the Table as "allocated" to one or more services in an area or country within a Region (e.g. Kiribati), this is an alternative allocation that replaces, in that area or country, the allocation shown in the Table.

If the footnote does not include any restriction on the services concerned (for example, allocation only on a secondary basis) apart from the restriction to operate only in a particular area or country, stations of those services have equal status with stations of other primary services to which the band is allocated in the Table, but only within that area or country.

Part 4 Spectrum Management in Kiribati

10 Technical Planning Elements

The Spectrum Plan is the broadest level technical document showing the allocation of bands to various types of services. The Spectrum Plan is the first planning document that should be consulted regarding spectrum arrangements in Kiribati. It is, however, the starting point and there are other elements, particularly those made under the Communications Act 2012, that contribute to spectrum management in Kiribati. These elements include:

- frequency allocation plans
- radiocommunications rules
- licensing rules
- technical rules and
- the technical conditions applied to spectrum and apparatus licences (including general licence conditions), including any requirements for compliance with standards.

The CCK website at http://www.cck.ki/ provides more detailed information on all of the above-mentioned items and includes a public register of radiocommunications licences.

11 Use of Spectrum for Meteorological Purposes

Spectrum is a critical component of around-the-clock monitoring functions in support of meteorological, hydrological and climatic research and services. Meteorological observation systems include:

- radars, for detecting storm events, precipitation analysis and collecting atmospheric wind data;
- meteorological and environmental satellites, for obtaining cloud imagery, providing communication links with remote automatic weather stations, and for remote sensing and monitoring of the Earthos atmosphere, oceans and land surface;
- radiosondes;
- data communications, such as with automatic weather stations; and
- wind profilers.

Meteorological communication channels are used for collecting and distributing observational data, and for issuing forecasts and warnings of severe weather.

The current allocations of spectrum for meteorological purposes, and associated operating provisions, are listed in the Radio Regulations of the ITU.

CHAPTER 2

KIRIBATI RADIOFREQUENCY SPECTRUM PLAN

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Part 1 Introductory

1 Name of Spectrum Plan

This Spectrum Plan is the *Kiribati Radiofrequency Spectrum Plan 2014*.

2 Commencement

This Spectrum Plan commences on 1 September 2014.

3 Definitions

(1) In this Spectrum Plan:

Act means the Communications Act 2012.

administration means a government or public authority of a country that is responsible for giving effect to the obligations of the country as an ITU member.

Note The Communications Commission of Kiribati is the Kiribati administration for radiocommunications.

aeronautical mobile (OR) service means an aeronautical mobile service for communications, including those relating to flight coordination, primarily outside national or international civil air routes.

aeronautical mobile (R) service means an aeronautical mobile service that is reserved for communications relating to the safety and regularity of flight, primarily along national or international civil air routes.

aeronautical mobile-satellite (OR) service means an aeronautical mobile-satellite service for communications, including those relating to flight coordination, primarily outside national and international civil air routes.

aeronautical mobile-satellite (R) service means an aeronautical mobile-satellite service that is reserved for communications relating to the safety and regularity of flight, primarily along national or international civil air routes.

Note In the definitions of aeronautical mobile (OR) service, aeronautical mobile (R) service, aeronautical mobile-satellite (OR) service and aeronautical mobile-satellite (R) service, (OR) means off-route and (R) means route.

aeronautical mobile-satellite service means a mobile-satellite service in which:

- (a) mobile earth stations are located on aircraft; and
- (b) survival craft stations and emergency position-indicating radiobeacon stations may participate.

aeronautical mobile service means any of the following mobile services:

- (a) a mobile service, between aeronautical stations and aircraft stations, in which:
 - (i) survival craft stations may participate; and
 - (ii) emergency position-indicating radiobeacon stations may participate on designated distress and emergency frequencies;
- (b) a mobile service, between aircraft stations, in which:
 - (i) survival craft stations may participate; and
 - (ii) emergency position-indicating radiobeacon stations may participate on designated distress and emergency frequencies.

aeronautical radionavigation service means a radionavigation service for the benefit and safe operation of aircraft.

amateur-satellite service means a radiocommunications service using space stations on Earth satellites for an amateur service.

amateur service means a radiocommunications service for self-training in, intercommunication using and technical investigation into, radiocommunications by individuals who:

- (a) are licensed under the Act to do so; and
- (b) do so solely with a personal aim; and
- (c) do not have a pecuniary interest in doing so.

assignment means an identification by the CCK, or a person authorised by the CCK, of:

- (a) one or more frequencies as being suitable for use by a device, subject to particular conditions; or
- (b) one or more frequency channels as being suitable for use by a device, subject to particular conditions.

atmospheric and ionospheric sounder means a station that uses radio waves to determine the physical characteristics of the atmosphere and the ionosphere.

broadcasting-satellite service means a broadcasting service transmitted by means of one or more space stations.

broadcasting service means a radiocommunications service that delivers radio programs or television programs to persons having equipment that may receive the service, but does not include the following services:

- (a) a service (including a teletext service) that transmits data only, with or without associated still images;
- (b) a service (including a teletext service) that transmits text only, with or without associated still images;
- (c) a service that makes programs available on demand on a point-to-point basis, including a dial-up service;
- (d) a service that the Minister determines by notice in the *Gazette* not to be a broadcasting service within the meaning of the *Broadcasting Services Act 1992*.

communication includes communication:

- (a) between:
 - (i) persons; or
 - (ii) things; or
 - (iii) persons and things; and
- (b) in any form, or combination of forms, including the following:
 - (i) speech, music or other sounds;
 - (ii) data;
 - (iii) text;
 - (iv) visual images, whether or not animated;
 - (v) signals.

earth exploration-satellite service:

- (a) means a radiocommunications service (that may include links between space stations) between earth stations and one or more space stations:
 - (i) by which information relating to the characteristics of the Earth and its natural phenomena is obtained from active or passive sensors on Earth satellites; and
 - (ii) by which similar information is collected from airborne or Earth-based platforms; and
 - (iii) by which the information may be distributed to earth stations participating in the service; and
 - (iv) by which platform interrogation may be carried out; and
- (b) includes any feeder link necessary for the operation of the service.

emergency position-indicating radiobeacon station means a station in the mobile service the emissions of which are intended to assist search and rescue operations.

experimental station means a station (except an amateur station) that uses radio waves in experiments for the development of science or technique.

feeder link means a radio link:

- (a) that involves an earth station at a particular fixed point, or at a fixed point within a particular area; and
- (b) that is for the use of a space radiocommunications service other than a fixed-satellite service; and
- (c) that is:
 - (i) from an earth station of the kind mentioned in paragraph (a) to a space station; or
 - (ii) from a space station to an earth station of the kind mentioned in paragraph (a).

Part 1

fixed-satellite service means a radiocommunications service, including any feeder link that is necessary for the operation of another space radiocommunications service, with the following characteristics:

- (a) the service is between earth stations at particular fixed points, or at fixed points within particular areas;
- (b) the service uses:
 - (i) one or more satellites; and
 - (ii) a satellite-to-satellite link (if any) that may use the inter-satellite service.

fixed service means a radiocommunications service between particular fixed points.

frequency band includes part of a frequency band that is specified in column 2 of the Table.

frequency channel means a sub-band that:

- (a) is in a frequency band; and
- (b) has a particular centre frequency.

harmful interference means interference that:

- (a) endangers the functioning of a radionavigation service or other safety services that are operating in accordance with:
 - (i) the Radio Regulations; or
 - (ii) this Spectrum Plan; or
- (b) obstructs, repeatedly interrupts or seriously degrades a radiocommunications service that is operating in accordance with:
 - (i) the Radio Regulations; or
 - (ii) this Spectrum Plan.

high altitude platform station means a station located on an object at an altitude of between 20 and 50 km, that is above a particular nominal place on the Earthøs surface.

industrial, scientific and medical (ISM) applications means the operation of a device or equipment that is designed to generate and apply locally radio frequency energy, except for telecommunications.

Examples of equipment used in ISM applications for industrial, scientific, medical and domestic purposes

- plastic welders
- · chemical analysis equipment
- medical diathermy equipment
- microwave ovens.

international footnote reference means a number, or the combination of a number and a letter, that refers to an item in Part 4.

inter-satellite service means a radiocommunications service providing links between artificial satellites.

ITU means the International Telecommunication Union.

Kiribati footnote reference means the combination of the letters ÷KIRø and a number that refers to an item in Part 3.

land mobile-satellite service means a mobile-satellite service in which mobile earth stations are located on land.

land mobile service means a mobile service:

- (a) between base stations and land mobile stations; or
- (b) between land mobile stations.

maritime mobile-satellite service means a mobile-satellite service in which:

- (a) mobile earth stations are located on ships; and
- (b) survival craft stations and emergency position-indicating radiobeacon stations may participate.

maritime mobile service means any of the following mobile services:

- (a) a mobile service, between coast stations and ship stations, in which survival craft stations and emergency position-indicating radiobeacon stations may participate;
- (b) a mobile service, between ship stations, in which survival craft stations and emergency position-indicating radiobeacon stations may participate;
- (c) a mobile service, between associated on-board communications stations (whether or not the stations are operated on ships), in which survival craft stations and emergency position-indicating radiobeacon stations may participate.

maritime radionavigation service means a radionavigation service for the benefit and safe operation of ships.

meteorological aids service means a radiocommunications service for meteorological (including hydrological) observations and exploration.

meteorological-satellite service means an earth exploration-satellite service that is used for meteorological purposes.

mobile-satellite service means any of the following radiocommunications services, including any feeder link that is necessary for the operation of the service:

- (a) a radiocommunications service between one or more mobile earth stations and one or more space stations;
- (b) a radiocommunications service between space stations used by the service;
- (c) a radiocommunications service between mobile earth stations by means of one or more space stations.

mobile service means a radiocommunications service:

- (a) between mobile stations and land stations; or
- (b) between mobile stations.

offshore area has the same meaning as in the Offshore Minerals Act 1994. program, in relation to a broadcasting service, means:

- (a) matter the primary purpose of which is to entertain, to educate or to inform an audience; or
- (b) advertising or sponsorship matter, whether or not of a commercial kind.

public correspondence means any telecommunication:

- (a) that is accepted for transmission by a station because the station is available for use by the public; or
- (b) that is accepted for transmission by a person or body because the person or body is obliged to accept the telecommunication from the public for transmission.

radio astronomy means astronomy based on the reception of radio waves of cosmic origin.

radio astronomy service means a radiocommunications service that is used for radio astronomy.

radiodetermination means either or both of the following, carried out on the basis of the propagation properties of radio waves:

- (a) determining the position, velocity or other characteristics of an object;
- (b) obtaining information about those characteristics.

radiodetermination-satellite service:

- (a) means a radiocommunications service involving the use of one or more space stations for radiodetermination; and
- (b) includes any feeder link necessary for the operation of the service.

radiodetermination service means a radiocommunications service that is used for radiodetermination.

radiolocation means radiodetermination that is used for a purpose other than radionavigation.

radiolocation-satellite service:

- (a) means a radiodetermination-satellite service that is used for radiolocation; and
- (b) includes any feeder link necessary for the operation of the service.

radiolocation service means a radiodetermination service that is used for radiolocation.

radionavigation means radiodetermination used for navigation or obstruction warning.

radionavigation-satellite service:

- (a) means a radiodetermination-satellite service used for radionavigation; and
- (b) includes any feeder link necessary for the operation of the service.

radionavigation service means a radiodetermination service for the purpose of radionavigation.

Radio Regulations means the document:

- (a) titled :Radio Regulationsøas existing from time to time; and
- (b) published by the ITU.

Note The Radio Regulations published by the ITU are not regulations made under the 2012 Act.

radio waves means electromagnetic waves of frequencies less than 420 THz that are propagated in space without an artificial guide.

reflecting satellite means a satellite that is intended to reflect radiocommunications signals.

safety service means a radiocommunications service used at any time for the safeguarding of human life or property.

satellite means a body that:

- (a) revolves around another body of preponderant mass; and
- (b) has a motion primarily and permanently determined by the force of attraction of the other body.

service means a service mentioned in column 2 of the Table.

Note Any service mentioned in column 1 of the Table is specified in the Radio Regulations and may be defined differently to a service of the same name in column 2 of the Table.

space operation service means a radiocommunications service that operates only for purposes relating to the operation of spacecraft, in particular:

- (a) space tracking; and
- (b) space telemetry; and
- (c) space telecommand.

Note The functions mentioned above will normally be provided within the service in which the space station is operating.

space radiocommunications means radiocommunications using one or more space stations, reflecting satellites or other objects in space.

space research service means a radiocommunications service in which spacecraft or other objects in space are used for scientific or technological research.

space station means a station on an object that is beyond, is intended to go beyond or has been beyond the major portion of the Earthøs atmosphere.

specified service means a service that uses the frequency band, mentioned in column 2 of the Table, that is allocated for the service.

standard frequency and time signal-satellite service:

- (a) means a standard frequency and time signal service that uses space stations on Earth satellites; and
- (b) includes any feeder link necessary for the operation of the service.

standard frequency and time signal service means a radiocommunications service that involves transmission of specified frequencies or time signals of a stated high precision for general reception.

survival craft station means a mobile station in the maritime mobile service or the aeronautical mobile service that is:

- (a) intended only for use for survival purposes; and
- (b) located on a lifeboat, life-raft or other survival equipment.

Table means the Table of Frequency Band Allocations in Part 2.

telecommunications means communications carried by electromagnetic energy that is guided, unguided, or both guided and unguided.

terrestrial radiocommunications means radiocommunications other than space radiocommunications or radio astronomy.

tropospheric scatter system means a system of communicating using radio waves that are propagated by scattering as a result of irregularities or discontinuities in the physical properties of the troposphere.

unspecified service means a service that uses a frequency band, mentioned in column 2 of the Table, that is not allocated for the service.

- (2) If an expression is defined in this Spectrum Plan, and different words are used to define the expression in the Radio Regulations, the expression is not taken to have a different meaning if the words used in both documents appear to express the same idea.
- (3) If an expression is not defined in this Spectrum Plan, and the expression is defined in the *Communications Act 2012*, the expression has the meaning given by that Act.
- (4) In this Spectrum Plan, a reference to a radiocommunications service is a reference to a radiocommunications service for terrestrial radiocommunications, unless another kind of radiocommunications is specified.
- (5) Notes to provisions of this Spectrum Plan, except the notes described as Kiribati or International footnotes in Part 3 or 4, are included for information only and are not part of the Spectrum Plan.

4 Division of spectrum into frequency bands

For section 34(2) of the Act, the spectrum is divided into the frequency bands set out in column 2 of the Table.

Note Column 1 of the Table is the Table of Frequency Allocations set out in the Radio Regulations, and is only included in the Table to allow for comparison with column 2.

5 How the Table refers to services

- (1) A primary service in a frequency band mentioned in column 2 of the Table is described by:
 - (a) an expression in upper case letters; and
 - (b) any related footnote reference.

Example

MOBILE.

(2) If the expression is followed by words in lower case letters that describe a limitation, the primary service is limited in the manner described in the limitation.

Example

MOBILE except aeronautical mobile (R).

This means that an aeronautical mobile (R) service is not part of the primary MOBILE service.

- (3) A secondary service in a frequency band mentioned in column 2 of the Table is described by:
 - (a) an expression in lower case letters other than:
 - (i) a limitation to a primary service; or
 - (ii) words in parentheses describing an operational restriction, as mentioned in subsection (5); and
 - (b) any related footnote reference.

Example

Mobile.

(4) If the expression is followed by words in lower case letters that describe a limitation, the secondary service is limited in the manner described in the limitation.

Example

Mobile except aeronautical mobile (R).

This means that an aeronautical mobile (R) service is not part of the secondary mobile service.

Note Services are listed in the Table in an order consistent with the Radio Regulations. They are not listed to suggest any order of priority.

(5) If a reference to a primary or secondary service in column 2 of the Table is immediately followed by words in parentheses describing an operational restriction, the service is restricted accordingly.

6 Primary and secondary services — frequency allocation plans

If a frequency band is specified, in column 2 of the Table, for a primary service, the frequency band may also be specified for a secondary service in a frequency allocation plan or other instrument made under the Act.

Note See sections 5 and 12 for provisions about *primary service* and *secondary service*.

7 Use of frequency bands — other circumstances

(1) A frequency band may be used for an unspecified service if the unspecified service uses the frequency band to support a specified service.

Example

A station in the land mobile service may communicate with stations of the aeronautical mobile service in a frequency band used for the aeronautical mobile service if the purpose of the station in the land mobile service is to support the aeronautical mobile service.

- (2) If the major usage of a station (the *first station*) is for a specified service, the frequency band allocated for that service may be used for an unspecified service that is:
 - (a) provided by the first station; or
 - (b) provided by another station and in support of a function of the first station.

Example

In column 2 of the Table, a frequency band is allocated to the meteorological-satellite service. A space station in the meteorological-satellite service uses that frequency band and receives meteorological information from buoys. This is the major usage of the station.

Under paragraph 10 (2) (a) the space station may also be used for radiodetermination of the positions of the buoys, although this would not be a specified service for the space station.

Under paragraph 10 (2) (b), the radiodetermination function of the space station could also be used to track an animal or vehicle carrying a transmitter. The use of this transmitter would also be permitted under paragraph 10 (2) (b).

- (3) A frequency band may be used temporarily, or on a transitional basis, for an unspecified service, if the use of the band:
 - (a) is consistent with planning or preparation for a revision of this Spectrum Plan or a frequency allocation plan; or
 - (b) would assist the implementation of a frequency allocation plan.
- (4) A frequency band may be used by an experimental station of a specified or unspecified service, but that use must not cause harmful interference to a specified service for the frequency band.
- (5) A frequency band may be used for an unspecified service if the use of the service is in the public interest for defence or national security.

8 Harmful interference — general

(1) If this Spectrum Plan provides that the use of a frequency band by a service must not cause harmful interference to another service, the first-mentioned service may not claim protection from harmful interference caused by the second-mentioned service.

Note This requirement appears in section 10 and some footnotes to the Table in Parts 3 and 4.

- (2) If this Spectrum Plan provides that a service that uses a frequency band may not claim protection from harmful interference caused by another service, the first-mentioned service must not cause harmful interference to the second-mentioned service.
- (3) If a frequency band is used by a service otherwise than in accordance with the Radio Regulations, the use of the frequency band by the service must not cause harmful interference to a station outside Kiribati operating in accordance with the Radio Regulations.

Note As well as subsection 11 (3), the Radio Regulations set out requirements for the coordination or notification of services mentioned in those regulations.

9 Harmful interference · secondary services

- (1) This section applies to a secondary service that uses a frequency band.
- (2) The secondary service must not cause harmful interference to a primary service using the frequency band, including a primary service that starts to use the frequency band after the secondary service starts.

- (3) The secondary service cannot claim protection from harmful interference caused by a primary service using the frequency band, including a primary service that starts to use the frequency band after the secondary service starts.
- (4) The secondary service may claim protection from harmful interference caused by another secondary service that:
 - (a) is using the frequency band; and
 - (b) was licensed after the first-mentioned secondary service.

Note 2 Other levels of interference protection are, or may be, provided for under the Act.

10 Interpretation of the Table

- (1) For this Spectrum Plan, a frequency band is identified by the range of numbers that:
 - (a) is specified in a cell in column 2 of the Table; and
 - (b) immediately precedes the first reference in the cell to a service.
- (2) The range of numbers that identifies a frequency band:
 - (a) is expressed in kilohertz, megahertz or gigahertz, as the case requires; and
 - (b) includes the higher, but not the lower, number.

Note The units to be used with a frequency band specified in a cell are the SI units used with the frequency band shown at the head of the page of the Table on which the cell appears, that is, $\pm kHz\phi$, $\pm MHz\phi$ or $\pm GHz\phi$ For example, ± 9 -14 ϕ in column 2 of the Table:

- (a) is read as ±the 9-14 kilohertz frequency bandø, and
- (b) refers to radio frequencies that exceed 9 kilohertz but do not exceed 14 kilohertz.
- (3) If a Kiribati footnote reference appears in a cell immediately after the description of a service, the operation of the service is subject to the condition or restriction specified in that footnote reference as set out in Part 3.
- (4) However, if a Kiribati footnote reference appears in a cell in another position, the use of a frequency band mentioned in the cell is subject to the condition or restriction specified in that footnote reference as set out in Part 3.
- (5) If an international footnote reference appears in a cell immediately after the description of a service, the operation of the service is subject to the condition or restriction specified in that footnote reference as set out in Part 4.
- (6) However, if an international footnote reference appears in a cell in another position, the use of a frequency band mentioned in the cell is subject to the condition or restriction specified in that footnote reference as set out in Part 4.

Part 2 Table of Frequency Band Allocations

kHz 8.3 – 90

| Column 1: ITU Radio Regulations - Table of Frequency Allocations | | | Column 2: |
|--|---------------------------------|-------------------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| Below 8.3 | (Not allocated) | | Below 8.3 |
| | | | (Not allocated) |
| | 53 54 | | 53 54 |
| 8.3 – 9 | METEOROLOGICAL AIDS 54A 54B 54C | | 8.3 – 9 |
| | | | METEOROLOGICAL AIDS |
| 0 11 2 | NETTO DOLOGICAL AIDC | 7.4.4 | 54A |
| 9 – 11.3 | METEOROLOGICAL AIDS S | 54A | 9 – 11.3 |
| | RADIONAVIGATION | | METEOROLOGICAL AIDS 54A |
| | | | RADIONAVIGATION |
| 11.3 – 14 | RADIONAVIGATION | | 11.3 – 14 |
| 11.5 – 14 | RADIONAVIGATION | | RADIONAVIGATION |
| 14 – 19.95 | FIXED | | 14 – 19.95 |
| 1. 27.00 | MARITIME MOBILE 57 | | FIXED |
| | | | MARITIME MOBILE 57 |
| | 55 56 | | 56 |
| 19.95 – 20.05 | STANDARD FREQUENCY A | ND TIME SIGNAL (20 kHz) | 19.95 – 20.05 |
| | | | STANDARD FREQUENCY |
| | | | AND TIME SIGNAL |
| | | | (20 kHz) |
| 20.05 - 70 | FIXED | | 20.05 - 70 |
| | MARITIME MOBILE 57 | | FIXED |
| | 7.6.70 | | MARITIME MOBILE 57 |
| 70 – 72 | 56 58 70 – 90 | 70 – 72 | 56 70 – 72 |
| RADIONAVIGATION 60 | 70 – 90 FIXED | RADIONAVIGATION 60 | RADIONAVIGATION 60 |
| RADIONA VIGATION 00 | MARITIME MOBILE 57 | Fixed | Fixed |
| | MARITIME MOBILE 37 | Maritime mobile 57 | Maritime mobile 57 |
| | RADIONAVIGATION 60 | 59 | Waltime mostle 37 |
| 72 – 84 | Radiolocation | 72 – 84 | 72 – 84 |
| FIXED | | FIXED | FIXED |
| MARITIME MOBILE 57 | | MARITIME MOBILE 57 | MARITIME MOBILE 57 |
| RADIONAVIGATION 60 | | RADIONAVIGATION 60 | RADIONAVIGATION 60 |
| 56 | | | |
| 84 – 86 | | 84 – 86 | 84 – 86 |
| RADIONAVIGATION 60 | | RADIONAVIGATION 60 | RADIONAVIGATION 60 |
| | | Fixed | Fixed |
| | | Maritime mobile 57 | Maritime mobile 57 |
| 86 – 90 | - | 86 – 90 | 86 – 90 |
| FIXED | | FIXED | FIXED |
| MARITIME MOBILE 57 | | MARITIME MOBILE 57 | MARITIME MOBILE 57 |
| RADIONAVIGATION | | RADIONAVIGATION 60 | RADIONAVIGATION 60 |
| 56 | 61 | | |

kHz 90 – 137.8

| Column 1: ITI | Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--------------------|--|--------------------|-------------------------------|--|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 90 – 110 | RADIONAVIGATION 62 | Region 5 | 90 – 110 | | |
| 90 - 110 | Fixed | | RADIONAVIGATION 62 | | |
| | Tixed | | Fixed | | |
| | 64 | | 64 | | |
| 110 – 112 | 110 – 130 | 110 – 112 | 110 – 112 | | |
| FIXED | FIXED | FIXED | FIXED | | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | | |
| RADIONAVIGATION | MARITIME MOBILE MARITIME | RADIONAVIGATION 60 | RADIONAVIGATION 60 | | |
| 64 | RADIONAVIGATION 60 | 64 | 64 | | |
| 112 – 115 | Radiolocation 80 | 112 – 117.6 | 112 – 117.6 | | |
| RADIONAVIGATION 60 | Radiolocation | RADIONAVIGATION 60 | RADIONAVIGATION 60 | | |
| 115 – 117.6 | - | Fixed | Fixed | | |
| RADIONAVIGATION 60 | | Maritime mobile | Maritime mobile | | |
| Fixed | | Martine moone | Martine moone | | |
| Maritime mobile | | | | | |
| 64 66 | | 64 65 | 64 | | |
| 117.6 – 126 | _ | 117.6 – 126 | 117.6 – 126 | | |
| FIXED | | FIXED | FIXED | | |
| MARITIME MOBILE | | MARITIME MOBILE | MARITIME MOBILE | | |
| RADIONAVIGATION 60 | | RADIONAVIGATION 60 | RADIONAVIGATION 60 | | |
| 64 | | 64 | 64 | | |
| 126 – 129 | | 126 – 129 | 126 – 129 | | |
| RADIONAVIGATION 60 | | RADIONAVIGATION 60 | RADIONAVIGATION 60 | | |
| | | Fixed | Fixed | | |
| | | Maritime mobile | Maritime mobile | | |
| | | 64 65 | 64 | | |
| 129 – 130 | | 129 – 130 | 129 – 130 | | |
| FIXED | | FIXED | FIXED | | |
| MARITIME MOBILE | | MARITIME MOBILE | MARITIME MOBILE | | |
| RADIONAVIGATION 60 | | RADIONAVIGATION 60 | RADIONAVIGATION 60 | | |
| 64 | 61 64 | 64 | 64 | | |
| 130 – 135.7 | 130 – 135.7 | 130 – 135.7 | 130 – 135.7 | | |
| FIXED | FIXED | FIXED | FIXED | | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | | |
| | | RADIONAVIGATION | RADIONAVIGATION | | |
| 64 67 | 64 | 64 | 64 | | |
| 135.7 – 137.8 | 135.7 – 137.8 | 135.7 – 137.8 | 135.7 – 137.8 | | |
| FIXED | FIXED | FIXED | FIXED | | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | | |
| Amateur 67A | Amateur 67A | RADIONAVIGATION | RADIONAVIGATION | | |
| | | Amateur 67A | Amateur 67A | | |
| 64 67 67B | 64 | 64 67B | 64 67B | | |

kHz 137.8 – 325

| Column 1: ITI I | Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | |
|--------------------------|--|------------------------------|-------------------------------|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 137.8 – 148.5 | 137.8 – 160 | 137.8 – 160 | 137.8 – 160 | |
| FIXED | FIXED | FIXED | FIXED | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | |
| 64 67 | WHATTIVIE WOBIEE | RADIONAVIGATION | RADIONAVIGATION | |
| 148.5 – 255 | 64 | 64 | 64 | |
| BROADCASTING | 160 – 190 | 160 – 190 | 160 – 190 | |
| | FIXED | FIXED | FIXED | |
| | FIXED | Aeronautical radionavigation | Aeronautical radionavigation | |
| | 190 – 200 | Aeronautical radionavigation | 190 – 200 | |
| | | ON A VICATION | AERONAUTICAL | |
| | AERONAUTICAL RADI | ONAVIGATION | RADIONAVIGATION | |
| | 200 – 275 | 200 – 285 | 200 – 285 | |
| | AERONAUTICAL | AERONAUTICAL | AERONAUTICAL | |
| | RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION | |
| 68 69 70 | Aeronautical mobile | Aeronautical mobile | Aeronautical mobile | |
| 255 – 283.5 | Aeronauticai mobile | Aeronauticai mobile | Aeronauticai mobile | |
| BROADCASTING | 275 – 285 | | | |
| AERONAUTICAL | AERONAUTICAL | | | |
| RADIONAVIGATION | RADIONAVIGATION | | | |
| 70 71 | Aeronautical mobile | | | |
| 283.5 – 315 | Maritime radionavigation | | | |
| AERONAUTICAL | (radiobeacons) | | | |
| RADIONAVIGATION | 285 – 315 | 1 | 285 – 315 | |
| MARITIME | AERONAUTICAL RADIONAVIGATION | | AERONAUTICAL | |
| RADIONAVIGATION | MARITIME RADIONAV | IGATION (radiobeacons) 73 | RADIONAVIGATION | |
| (radiobeacons) 73 | | | MARITIME | |
| , | | | RADIONAVIGATION | |
| | | | (radiobeacons) 73 | |
| 74 | | | | |
| 315 – 325 | 315 – 325 | 315 – 325 | 315 – 325 | |
| AERONAUTICAL | MARITIME | AERONAUTICAL | AERONAUTICAL | |
| RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION | |
| Maritime radionavigation | (radiobeacons) 73 | MARITIME | MARITIME | |
| (radiobeacons) 73 | Aeronautical radionavigation | RADIONAVIGATION | RADIONAVIGATION | |
| | | (radiobeacons) 73 | (radiobeacons) 73 | |
| 75 | | | | |

kHz 325 – 505

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|---|---|--|--|--|
| Region 1 | Region 2 | Kiribati Table of Allocations | | |
| 325 – 405 | 325 – 335 | Region 3 325 – 405 | 325 – 405 | |
| AERONAUTICAL RADIONAVIGATION | AERONAUTICAL RADIONAVIGATION Aeronautical mobile Maritime radionavigation | AERONAUTICAL RADIONAVIGATION Aeronautical mobile | AERONAUTICAL RADIONAVIGATION Aeronautical mobile | |
| | (radiobeacons) 335 – 405 AERONAUTICAL RADIONAVIGATION Aeronautical mobile | | | |
| 405 – 415 RADIONAVIGATION 76 | 405 – 415 RADIONAVIGATION 7 Aeronautical mobile | 6 | 405 – 415 RADIONAVIGATION 76 Aeronautical mobile | |
| 415 – 435 MARITIME MOBILE 79 AERONAUTICAL RADIONAVIGATION 435 – 472 | 415 – 472 MARITIME MOBILE 79 Aeronautical radionavigation 77 80 | | 415 – 472 MARITIME MOBILE 79 Aeronautical radionavigation | |
| MARITIME MOBILE 79 Aeronautical radionavigation 77 82 | 78 82 | | 82 | |
| 472 – 479 | MARITIME MOBILE 79 Amateur 80A Aeronautical radionavigation 77 80 | | 472 – 479 MARITIME MOBILE 79 Aeronautical radionavigation Amateur 80A | |
| 479 – 495 MARITIME MOBILE 79 79A Aeronautical radionavigation 77 | 479 – 495 MARITIME MOBILE 79 79A Aeronautical radionavigation 77 80 | | 479 – 495 MARITIME MOBILE 79 79A Aeronautical radionavigation | |
| 82 495 – 505 | 82 MARITIME MOBILE | | 82 495 – 505 MARITIME MOBILE | |

kHz 505 – 1 800

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|---------------------|---------------------|-------------------------------|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 505 – 526.5 | 505 - 510 | 505 – 526.5 | 505 – 526.5 | |
| MARITIME MOBILE 79 | MARITIME MOBILE 79 | MARITIME MOBILE 79 | MARITIME MOBILE 79 | |
| 79A 84 | 510 - 525 | 79A 84 | 79A 84 | |
| AERONAUTICAL | MARITIME MOBILE 79A | AERONAUTICAL | AERONAUTICAL | |
| RADIONAVIGATION | 84 | RADIONAVIGATION | RADIONAVIGATION | |
| | AERONAUTICAL | Aeronautical mobile | Aeronautical mobile | |
| | RADIONAVIGATION | Land mobile | Land mobile | |
| | 525 – 535 | | | |
| 526.5 – 1 606.5 | BROADCASTING 86 | 526.5 – 535 | 526.5 – 535 | |
| BROADCASTING | AERONAUTICAL | BROADCASTING | BROADCASTING | |
| | RADIONAVIGATION | Mobile | Mobile | |
| | | 88 | | |
| | 535 – 1 605 | 535 – 1 606.5 | 535 – 1 606.5 | |
| | BROADCASTING | BROADCASTING | BROADCASTING | |
| | 1 605 – 1 625 | | | |
| 87 87A | BROADCASTING 89 | | | |
| 1 606.5 – 1 625 | | 1 606.5 – 1 800 | 1 606.5 – 1 800 | |
| FIXED | | FIXED | FIXED | |
| MARITIME MOBILE 90 | | MOBILE | MOBILE | |
| LAND MOBILE | | RADIOLOCATION | RADIOLOCATION | |
| 92 | 90 | RADIONAVIGATION | RADIONAVIGATION | |
| 1 625 – 1 635 | 1 625 – 1 705 | | | |
| RADIOLOCATION | FIXED | | | |
| 93 | MOBILE | | | |
| 1 635 – 1 800 | BROADCASTING 89 | | | |
| FIXED | Radiolocation | | | |
| MARITIME MOBILE 90 | 90 | | | |
| LAND MOBILE | 1 705 – 1 800 | | | |
| | FIXED | | | |
| | MOBILE | | | |
| | RADIOLOCATION | | | |
| 02.06 | AERONAUTICAL | 91 | | |
| 92 96 | RADIONAVIGATION | | | |

kHz 1 800 – 2 170

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | |
|--|----------------------------|----------------------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 1 800 – 1 810 | 1 800 – 1 850 | 1 800 – 2 000 | 1 800 – 1 825 |
| RADIOLOCATION | AMATEUR | AMATEUR | AMATEUR |
| 93 | | FIXED | FIXED |
| 1 810 – 1 850 | | MOBILE except aeronautical | MOBILE except aeronautical |
| AMATEUR | | mobile | mobile |
| 98 99 100 | | RADIONAVIGATION | RADIONAVIGATION |
| 1 850 – 2 000 | 1 850 – 2 000 | Radiolocation | Radiolocation |
| FIXED | AMATEUR | | |
| MOBILE except aeronautical | FIXED | | |
| mobile | MOBILE except aeronautical | | |
| | mobile | | |
| | RADIOLOCATION | | |
| | RADIONAVIGATION | | |
| | | | |
| | | | |
| | | | |
| 92 96 103 | 102 | 97 | 97 |
| 2 000 - 2 025 | 2 000 – 2 065 | | 2 000 – 2 065 |
| FIXED | FIXED | | FIXED |
| MOBILE except aeronautical | MOBILE | | MOBILE |
| mobile (R) | | | |
| 92 103 | | | |
| 2 025 – 2 045 | | | |
| FIXED | | | |
| MOBILE except aeronautical | | | |
| mobile (R) | | | |
| Meteorological aids 104 | | | |
| 92 103 | - | | |
| 2 045 – 2 160 EIVED | | | |
| FIXED MARITIME MOBILE | 2 065 – 2 107 | _ | 2 065 – 2 107 |
| LAND MOBILE | MARITIME MOBILE 10 | 95 | MARITIME MOBILE |
| LAND MODILE | 106 | | 106 |
| 92 | 2 107 – 2 170 | | 2 107 – 2 170 |
| 2 160 – 2 170 | FIXED MOBILE | | FIXED MOBILE |
| RADIOLOCATION | MODILE | | WOBILE |
| 93 107 | | | |

kHz 2 170 – 3 155

| 2 170 – 3 155 | | | | |
|----------------------------|------------------------------------|--------------------|-------------------------------|--|
| Column 1: ITU 1 | Radio Regulations - Table of Frequ | nency Allocations | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 2 170 – 2 173.5 | MARITIME MOBILE | <u> </u> | 2 170 – 2 173.5 | |
| | | | MARITIME MOBILE | |
| 2 173.5 – 2 190.5 | MOBILE (distress and calling) | | 2 173.5 – 2 190.5 | |
| | | | MOBILE (distress and | |
| | | | calling) | |
| | 108 109 110 111 | | 108 109 110 111 | |
| 2 190.5 – 2 194 | MARITIME MOBILE | | 2 190.5 – 2 194 | |
| 2 170.5 2 174 | WARRITIVIE WODILE | | MARITIME MOBILE | |
| 2 194 – 2 300 | 2 194 – 2 300 | | 2 194 – 2 300 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | | MOBILE | |
| | WOBILE | | MOBILE | |
| mobile (R) | 112 | | | |
| 92 103 112 | 112 | | 2 200 2 405 | |
| 2 300 – 2 498 | 2 300 – 2 495 EIVED | | 2 300 – 2 495 ENVED | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | | MOBILE | |
| mobile (R) | BROADCASTING 113 | | BROADCASTING 113 | |
| BROADCASTING 113 | 2 495 – 2 501 | | 2 495 – 2 501 | |
| 103 | STANDARD FREQUENC | CY AND TIME SIGNAL | STANDARD FREQUENCY | |
| 2 498 – 2 501 | (2 500 kHz) | | AND TIME SIGNAL | |
| STANDARD FREQUENCY | | | (2 500 kHz) | |
| AND TIME SIGNAL | | | | |
| (2 500 kHz) | | | | |
| 2 501 – 2 502 | STANDARD FREQUENCY A | ND TIME SIGNAL | 2 501 – 2 502 | |
| | Space research | | STANDARD FREQUENCY | |
| | | | AND TIME SIGNAL | |
| | | | Space research | |
| 2 502 – 2 625 | 2 502 – 2 505 | | 2 502 – 2 505 | |
| FIXED | STANDARD FREQUENC | CY AND TIME SIGNAL | STANDARD FREQUENCY | |
| MOBILE except aeronautical | | | AND TIME SIGNAL | |
| mobile (R) | 2 505 - 2 850 | | 2 505 – 2 850 | |
| 92 103 114 | FIXED | | FIXED | |
| 2 625 - 2 650 | MOBILE | | MOBILE | |
| MARITIME MOBILE | | | | |
| MARITIME | | | | |
| RADIONAVIGATION | | | | |
| 92 | | | | |
| 2 650 - 2 850 | 1 | | | |
| FIXED | | | | |
| MOBILE except aeronautical | | | | |
| mobile (R) | | | | |
| 92 103 | | | | |
| 2850 - 3025 | AERONAUTICAL MOBILE (I | 3) | 2 850 – 3 025 | |
| 2000 0020 | LEROTATO HOLLE MODILE (I | | AERONAUTICAL MOBILE | |
| | | | (R) | |
| | 111 115 | | 111 115 | |
| 3 025 – 3 155 | AERONAUTICAL MOBILE (| DR) | 3 025 – 3 155 | |
| 3 023 - 3 133 | ALKONAUTICAL MODILE (C | | AERONAUTICAL MOBILE | |
| | | | (OR) | |
| 1 | | | i (UK) | |

kHz 3 155 – 4 000

| | | - 4 000 | |
|----------------------------|-----------------------------------|---------------------|-------------------------------|
| | Radio Regulations - Table of Freq | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 3 155 – 3 200 | FIXED | | 3 155 – 3 200 |
| | MOBILE except aeronautical n | nobile (R) | FIXED |
| | | | MOBILE except aeronautical |
| | | | mobile (R) |
| | 116 117 | | 116 |
| 3 200 – 3 230 | FIXED | | 3 200 – 3 230 |
| | MOBILE except aeronautical n | nobile (R) | FIXED |
| | BROADCASTING 113 | | MOBILE except aeronautical |
| | | | mobile (R) |
| | | | BROADCASTING 113 |
| | 116 | | 116 |
| 3 230 – 3 400 | FIXED | | 3 230 – 3 400 |
| | MOBILE except aeronautical n | nobile | FIXED |
| | BROADCASTING 113 | | MOBILE except aeronautical |
| | | | mobile (R) |
| | 116 110 | | BROADCASTING 113 |
| 2.400 2.500 | 116 118 | D) | 116 |
| 3 400 – 3 500 | AERONAUTICAL MOBILE (| K) | 3 400 – 3 500 |
| | | | AERONAUTICAL MOBILE |
| 3 500 – 3 800 | 3 500 – 3 750 | 3 500 – 3 900 | (R) 3 500 – 3 900 |
| AMATEUR | AMATEUR | AMATEUR | AMATEUR |
| FIXED | AWATEUR | FIXED | FIXED |
| MOBILE except aeronautical | 119 | MOBILE | MOBILE |
| mobile | 3 750 – 4 000 | WOBILE | WOBILE |
| moone | AMATEUR | | |
| | FIXED | | |
| | MOBILE except aeronautical | | |
| | mobile (R) | | |
| 92 | moone (it) | | |
| 3 800 – 3 900 | 1 | | |
| FIXED | | | |
| AERONAUTICAL MOBILE | | | |
| (OR) | | | |
| LAND MOBILE | | | |
| 3 900 – 3 950 |] | 3 900 – 3 950 | 3 900 – 3 950 |
| AERONAUTICAL MOBILE | | AERONAUTICAL MOBILE | AERONAUTICAL MOBILE |
| (OR) | | BROADCASTING | BROADCASTING |
| 123 |] | | |
| 3 950 – 4 000 | | 3 950 – 4 000 | 3 950 – 4 000 |
| FIXED | | FIXED | FIXED |
| BROADCASTING | 1.00 1.05 | BROADCASTING | BROADCASTING |
| | 122 125 | 126 | 126 |
| | | | |

kHz 4 000 – 5 060

| | | -5 060 | T |
|----------------------------|-----------------------------------|----------------------------|-------------------------------|
| | Radio Regulations - Table of Freq | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 4 000 – 4 063 | FIXED | | 4 000 – 4 063 |
| | MARITIME MOBILE 127 | | FIXED |
| | | | MARITIME MOBILE 127 |
| | 126 | | 126 |
| 4 063 – 4 438 | MARITIME MOBILE 79A 1 | 09 110 130 131 132 | 4 063 – 4 438 |
| | ,,,,, | | MARITIME MOBILE 79A |
| | | | 109 110 130 131 132 |
| | 128 | | 128 |
| 4 438 – 4 488 | 4 438 – 4 488 | 4 438 – 4 488 | 4 438 – 4 488 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical |
| mobile (R) | mobile (R) | mobile | mobile (R) |
| Radiolocation 132A | RADIOLOCATION 132A | Radiolocation 132A | Radiolocation 132A |
| | RADIOLOCATION 132A | Radiolocation 132A | Radiolocation 132A |
| 132B | 1 | 4 400 4 650 | 4 400 4 650 |
| 4 488 – 4 650 | | 4 488 – 4 650 | 4 488 – 4 650 |
| FIXED | | FIXED | FIXED |
| MOBILE except aeronaut | ical mobile (R) | MOBILE except aeronautical | MOBILE except aeronautical |
| | | mobile | mobile (R) |
| 4 650 – 4 700 | AERONAUTICAL MOBILE (| R) | 4 650 – 4 700 |
| | · · | | AERONAUTICAL MOBILE |
| | | | (R) |
| 4 700 – 4 750 | AERONAUTICAL MOBILE (| OR) | 4 700 – 4 750 |
| | | | AERONAUTICAL MOBILE |
| | | | (OR) |
| 4 750 – 4 850 | 4 750 – 4 850 | 4 750 – 4 850 | 4 750 – 4 850 |
| FIXED | FIXED | FIXED | FIXED |
| AERONAUTICAL MOBILE | MOBILE except aeronautical | BROADCASTING 113 | BROADCASTING 113 |
| | | Land mobile | Land mobile |
| (OR) LAND MOBILE | mobile (R) BROADCASTING 113 | Land mobile | Land mobile |
| | BROADCASTING 113 | | |
| BROADCASTING 113 | ENZED | | 4.050 4.005 |
| 4 850 – 4 995 | FIXED | | 4 850 – 4 995 |
| | LAND MOBILE | | FIXED |
| | BROADCASTING 113 | | LAND MOBILE |
| 4007 7000 | GELLIE LED | NE ED CE GIGINA | BROADCASTING 113 |
| 4 995 – 5 003 | STANDARD FREQUENCY A | AND TIME SIGNAL | 4 995 – 5 003 |
| | (5 000 kHz) | | STANDARD FREQUENCY |
| | | | AND TIME SIGNAL |
| | | | (5 000 kHz) |
| 5 003 – 5 005 | STANDARD FREQUENCY A | AND TIME SIGNAL | 5 003 – 5 005 |
| | Space research | | STANDARD FREQUENCY |
| | | | AND TIME SIGNAL |
| | | | Space research |
| 5 005 - 5 060 | FIXED | | 5 005 - 5 060 |
| | BROADCASTING 113 | | FIXED |
| | | | BROADCASTING 113 |
| | | | |

kHz 5 060 – 6 525

| | | - 6 525 | |
|----------------------------|--|----------------------------|-------------------------------|
| | Column 1: ITU Radio Regulations - Table of Frequency Allocations | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 5 060 - 5 250 | FIXED | | 5 060 - 5 250 |
| | Mobile except aeronautical mobile | | FIXED |
| | | | Mobile except aeronautical |
| | 133 | | mobile (R) |
| 5 250 - 5 275 | 5 250 - 5 275 | 5 250 - 5 275 | 5 250 - 5 275 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical |
| mobile | mobile | mobile | mobile (R) |
| Radiolocation 132A | RADIOLOCATION 132A | Radiolocation 132A | Radiolocation 132A |
| 133A | | | |
| 5 275 - 5 450 | FIXED | | 5 275 – 5 450 |
| | MOBILE except aeronautical n | nobile | FIXED |
| | • | | MOBILE except aeronautical |
| | | | mobile (R) |
| 5 450 - 5 480 | 5 450 - 5 480 | 5 450 - 5 480 | 5 450 - 5 480 |
| FIXED | AERONAUTICAL MOBILE | FIXED | FIXED |
| AERONAUTICAL MOBILE | (R) | AERONAUTICAL MOBILE | AERONAUTICAL MOBILE |
| (OR) | , , | (OR) | (OR) |
| LAND MOBILE | | LAND MOBILE | LAND MOBILE |
| 5 480 - 5 680 | AERONAUTICAL MOBILE (| R) | 5 480 - 5 680 |
| | · · · | | AERONAUTICAL MOBILE |
| | | | (R) |
| | 111 115 | | 111 115 |
| 5 680 - 5 730 | AERONAUTICAL MOBILE (| OR) | 5 680 - 5 730 |
| | | | AERONAUTICAL MOBILE |
| | | | (OR) |
| | 111 115 | | 111 115 |
| 5 730 - 5 900 | 5 730 - 5 900 | 5 730 - 5 900 | 5 730 - 5 900 |
| FIXED | FIXED | FIXED | FIXED |
| LAND MOBILE | MOBILE except aeronautical | Mobile except aeronautical | Mobile except aeronautical |
| | mobile (R) | mobile (R) | mobile (R) |
| 5 900 - 5 950 | BROADCASTING 134 | | 5 900 - 5 950 |
| 3 700 - 3 730 | DRUADCASTINU 134 | | BROADCASTING 134 |
| | 136 | | 136 |
| 5 950 - 6 200 | BROADCASTING | | 5 950 – 6 200 |
| 3 930 - 0 200 | DKUADCASTING | | |
| 6 200 – 6 525 | MARITIME MOBILE 109 110 130 132 | | BROADCASTING 6 200 – 6 525 |
| 0 200 - 0 525 | | | MARITIME MOBILE 109 |
| | | | 110 130 132 |
| | 127 | | |
| | 137 | | 137 |

kHz 6 525 – 8 815

| Column 1 · 1 | TU Radio Regulations - Table of Freq | uency Allocations | Column 2: |
|---------------|---|---------------------------------------|----------------------------------|
| Region 1 | Region 2 Region 3 | | Kiribati Table of Allocations |
| 6 525 – 6 685 | AERONAUTICAL MOBILE (| Region 5 | 6 525 – 6 685 |
| 0 323 - 0 083 | AERONAUTICAL MOBILE (| K) | AERONAUTICAL MOBILE |
| | | | |
| 6 685 – 6 765 | 35 – 6 765 AERONAUTICAL MOBILE (OR) | | (R) 6 685 - 6 765 |
| 0 003 - 0 703 | ALKONAOTICAL MODILL (| AERONAUTICAL MODILE (OR) | |
| | | | |
| 6 765 – 7 000 | FIXED | FIXED | |
| | | MOBILE except aeronautical mobile (R) | |
| | THE EAST CHARGE WET SHAWKER IN | | |
| | | | |
| | 138 | | |
| 7 000 – 7 100 | AMATEUR | | 7 000 – 7 100 |
| | AMATEUR6SATELLITE | | AMATEUR |
| | 140 141 141A | | |
| 7 100 – 7 200 | AMATEUR | | 7 100 – 7 200 |
| | | | AMATEUR |
| | 141A 141B 142 | | 142 |
| 7 200 – 7 300 | 7 200 – 7 300 | 7 200 – 7 300 | 7 200 – 7 300 |
| BROADCASTING | AMATEUR | BROADCASTING | BROADCASTING |
| | 142 | | |
| 7 300 – 7 400 | BROADCASTING 134 | | 7 300 – 7 400 |
| | | | BROADCASTING 134 143 143A |
| | | 143 143A 143B 143C 143D | |
| 7 400 – 7 450 | 7 400 – 7 450 | 7 400 – 7 450 | 7 400 – 7450 |
| BROADCASTING | FIXED | BROADCASTING | BROADCASTING |
| | MOBILE except aeronautical | | |
| 143B 143C | mobile (R) | 143A 143C | 143A |
| 7 450 – 8 100 | | | 7 450 – 8100 FIXED |
| | MOBILE except aeronautical n | MOBILE except aeronautical mobile (R) | |
| | | | |
| | | | |
| 0.100 0.10= | 143E 144 | | 144 8 100 – 8 195 |
| 8 100 – 8 195 | | FIXED | |
| | MARITIME MOBILE | MARITIME MOBILE | |
| 0.105 0.015 | 0.015 MAD WELLOON F. 100, 110, 120, 115 | | MARITIME MOBILE 8 195 – 8 815 |
| 8 195 – 8 815 | MARITIME MOBILE 109 11 | MARITIME MOBILE 109 110 132 145 | |
| | | | |
| | 111 | | 110 132 145 |
| | 111 | | 111 |

kHz 8 815 – 10 150

| Column 1. | ITU Radio Regulations - Table of Front | 5 - 10 150 equency Allocations | Column 2: |
|--------------------|--|------------------------------------|---|
| Region 1 | Region 2 | | |
| 8 815 – 8 965 | AERONAUTICAL MOBILE | | Kiribati Table of Allocations 8 815 – 8 965 |
| 8 813 – 8 703 | ALKONAU IICAL MODILI | AERONAUTICAL MOBILE (R) | |
| | | | AERONAUTICAL MOBILE (R) |
| 8 965 – 9 040 | AERONAUTICAL MOBILE | F (OR) | 8 965 – 9 040 |
| 0 7 0 7 0 10 | TIEROTATO FIETE MODIEE | AERONAUTICAL MODILE (OR) | |
| | | | AERONAUTICAL MOBILE (OR) |
| 9 040 - 9 305 | 9 040 - 9 400 | 9 040 - 9 305 | 9 040 – 9 305 |
| FIXED | FIXED | FIXED | FIXED |
| 9 305 – 9 355 | | 9 305 – 9 355 | 9 305 – 9 355 |
| FIXED | | FIXED | FIXED |
| Radiolocation 145A | | Radiolocation 145A | Radiolocation 145A |
| 145B | | | |
| 9 355 - 9 400 | | 9 355 – 9 400 | 9 355 – 9 400 |
| FIXED | | FIXED | FIXED |
| 9 400 – 9 500 | BROADCASTING 134 | | 9 400 – 9 500 |
| | | | BROADCASTING 134 |
| | | 146 | |
| 9 500 – 9 900 | BROADCASTING | | 9 500 – 9 900 BROADCASTING |
| | | 147 | |
| | | | |
| 9 900 – 9 995 | FIXED | FIXED | |
| 0.007 10.002 | CTANDADD EDECHENCY | AND TIME GIONAL | FIXED 9 995 – 10 003 |
| 9 995 – 10 003 | (10 000 kHz) | STANDARD FREQUENCY AND TIME SIGNAL | |
| | (10 000 kHz) | | STANDARD FREQUENCY AND TIME SIGNAL |
| | | | (10 000 kHz) |
| | 111 | | 111 |
| 10 003 - 10 005 | | STANDARD FREQUENCY AND TIME SIGNAL | |
| 10 000 10 000 | Space research | | 10 003 – 10 005 STANDARD FREQUENCY |
| | Space researen | | AND TIME SIGNAL |
| | | | Space research |
| | 111 | | 111 |
| 10 005 - 10 100 | AERONAUTICAL MOBILE | AERONAUTICAL MOBILE (R) | |
| | | | AERONAUTICAL MOBILE |
| | | | (R) |
| | 111 | | 111 |
| 10 100 - 10 150 | FIXED | | 10 100 – 10 150 |
| | Amateur | | FIXED |
| | | | Amateur |

kHz 10 150 – 13 410

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | |
|--|-----------------------------------|----------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 10 150– 11 175 | FIXED | Region 5 | 10 150 – 11 175 |
| 10 130 11 173 | Mobile except aeronautical mobile | (R) | FIXED |
| | nzoene eneept uerenuurem moene | (11) | Mobile except aeronautical |
| | | | mobile (R) |
| 11 175 – 11 275 | AERONAUTICAL MOBILE (OR |) | 11 175 – 11 275 |
| | • | | AERONAUTICAL MOBILE |
| | | | (OR) |
| 11 275 – 11 400 | AERONAUTICAL MOBILE (R) | | 11 275 – 11 400 |
| | | | AERONAUTICAL MOBILE |
| | | | (R) |
| 11 400 – 11 600 | FIXED | | 11 400 – 11 600 |
| | | | FIXED |
| 11 600 – 11 650 | BROADCASTING 134 | | 11 600 – 11 650 |
| | 146 | | BROADCASTING 134 |
| 11 (50 12 050 | 146 | | 146 |
| 11 650 – 12 050 | BROADCASTING | | 11 650 – 12 050 |
| | 147 | | BROADCASTING 147 |
| 12 050 – 12 100 | BROADCASTING 134 | | 12 050 – 12 100 |
| 12 050 - 12 100 | DROADCASTING 134 | | BROADCASTING 134 |
| | 146 | | 146 |
| 12 100 – 12 230 | FIXED | | 12 100 – 12 230 |
| 12 100 12 230 | TIMED | | FIXED |
| 12 230 – 13 200 | MARITIME MOBILE 109 110 1 | 32, 145 | 12 230 – 13 200 |
| | 100 110 1 | | MARITIME MOBILE 109 |
| | | | 110 132 145 |
| 13 200 – 13 260 | AERONAUTICAL MOBILE (OR |) | 13 200 – 13 260 |
| | | | AERONAUTICAL MOBILE |
| | | | (OR) |
| 13 260 - 13 360 | AERONAUTICAL MOBILE (R) | <u> </u> | 13 260 – 13 360 |
| | | | AERONAUTICAL MOBILE |
| | | | (R) |
| 13 360 – 13 410 | FIXED | | 13 360 - 13 410 |
| | RADIO ASTRONOMY | | FIXED |
| | 1.40 | | RADIO ASTRONOMY |
| | 149 | | 149 |

kHz 13 410 – 14 990

| Column 1: ITU Radio Regulations - Table of Frequency Allocations | | Column 2: | |
|---|---|---------------|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 13 410 – 13 450 | FIXED Mobile except aeronautical mobile (R) | | 13 410 – 13 450 FIXED Mobile except aeronautical mobile (R) |
| FIXED Mobile except aeronautical mobile (R) Radiolocation 132A 149A | 13 450 – 13 550 FIXED Mobile except aeronautica Radiolocation 132A | al mobile (R) | 13 450 – 13 550 FIXED Mobile except aeronautical mobile (R) Radiolocation 132A |
| 13 550 – 13 570 | FIXED Mobile except aeronautical mo | bile (R) | 13 550 – 13 570 FIXED Mobile except aeronautical mobile (R) 150 |
| 13 570 – 13 600 | BROADCASTING 134 | | 13 570 – 13 600 BROADCASTING 134 151 |
| 13 600 – 13 800 | BROADCASTING | | 13 600 – 13 800 BROADCASTING |
| 13 800 – 13 870 | BROADCASTING 134 | | 13 800 – 13 870 BROADCASTING 134 |
| 13 870 – 14 000 | FIXED Mobile except aeronautical mo | bile (R) | 13 870 – 14 000 FIXED Mobile except aeronautical mobile (R) |
| 14 000 – 14 250 | AMATEUR AMATEUR6SATELLITE | | 14 000 – 14 250 AMATEUR AMATEURÓSATELLITE |
| 14 250 – 14 350 | AMATEUR 152 | | 14 250 – 14 350 AMATEUR |
| 14 350 – 14 990 | FIXED Mobile except aeronautical mo | bile (R) | 14 350 – 14 990 FIXED Mobile except aeronautical mobile (R) |

kHz 14 990 – 17 550

| Column 1: I | ΓU Radio Regulations - Table of Free | quency Allocations | Column 2: | |
|--------------------|--------------------------------------|------------------------------------|---------------------|--|
| Region 1 | Region 2 | Region 2 Region 3 | | |
| 14 990 – 15 005 | STANDARD FREQUENCY A | STANDARD FREQUENCY AND TIME SIGNAL | | |
| | (15 000 kHz) | | STANDARD FREQUENCY | |
| | | | AND TIME SIGNAL | |
| | | | (15 000 kHz) | |
| | 111 | | 111 | |
| 15 005 - 15 010 | STANDARD FREQUENCY A | AND TIME SIGNAL | 15 005 – 15 010 | |
| | Space research | | STANDARD FREQUENCY | |
| | | | AND TIME SIGNAL | |
| | | | Space research | |
| 15 010 - 15 100 | AERONAUTICAL MOBILE | (OR) | 15 010 – 15 100 | |
| | | | AERONAUTICAL MOBILE | |
| | | | (OR) | |
| 15 100 – 15 600 | BROADCASTING | | 15 100 – 15 600 | |
| | | | BROADCASTING | |
| 15 600 - 15 800 | BROADCASTING 134 | | 15 600 – 15 800 | |
| | 146 | | BROADCASTING 134 | |
| | | | 146 | |
| 15 800 – 16 100 | FIXED | | 15 800 – 16 100 | |
| | | | | |
| | 153 | | 153 | |
| 16 100 – 16 200 | 16 100 – 16 200 | 16 100 – 16 200 | 16 100 – 16 200 | |
| FIXED | FIXED | FIXED | FIXED | |
| Radiolocation 145A | RADIOLOCATION 145A | Radiolocation 145A | Mobile AUS75 | |
| 145B | | | Radiolocation 145A | |
| 16 200 – 16 360 | FIXED | | 16 200 – 16 360 | |
| | | | FIXED | |
| 16 360 – 17 410 | MARITIME MOBILE 109 1 | 10 132 145 | 16 360 – 17 410 | |
| | | | MARITIME MOBILE 109 | |
| | | | 110 132 145 | |
| 17 410 – 17 480 | FIXED | | 17 410 – 17 480 | |
| | | | FIXED | |
| 17 480 – 17 550 | BROADCASTING 134 | | 17 480 – 17 550 | |
| | | | BROADCASTING 134 | |
| | 146 | | 146 | |

kHz 17 550 – 19 990

| Column 1: | Column 1: ITU Radio Regulations - Table of Frequency Allocations | | | |
|-----------------|--|-------------------|----------------------------|--|
| Region 1 | Region 2 | Region 2 Region 3 | | |
| 17 550 – 17 900 | BROADCASTING | | 17 550 – 17 900 | |
| | | | BROADCASTING | |
| 17 900 – 17 970 | AERONAUTICAL MOBILE (F | R) | 17 900 – 17 970 | |
| | | | AERONAUTICAL MOBILE | |
| | | | (R) | |
| 17 970 – 18 030 | AERONAUTICAL MOBILE (C | OR) | 17 970 – 18 030 | |
| | | | AERONAUTICAL MOBILE | |
| | | | (OR) | |
| 18 030 - 18 052 | FIXED | | 18 030 – 18 052 | |
| | | | FIXED | |
| 18 052 – 18 068 | FIXED | | 18 052 – 18 068 | |
| | Space research | | FIXED | |
| | | | Space research | |
| 18 068 – 18 168 | AMATEUR | | 18 068 – 18 168 | |
| | AMATEUR 6 SATELLITE | | AMATEUR | |
| | 154 | | AMATEURÓSATELLITE | |
| 18 168 – 18 780 | FIXED | | 18 168 – 18 780 | |
| | Mobile except aeronautical mob | ile | FIXED | |
| | | | Mobile except aeronautical | |
| | | | mobile | |
| 18 780 – 18 900 | MARITIME MOBILE | | 18 780 – 18 900 | |
| | | | MARITIME MOBILE | |
| 18 900 – 19 020 | BROADCASTING 134 | | 18 900 – 19 020 | |
| | | | BROADCASTING 134 | |
| | 146 | | 146 | |
| 19 020 – 19 680 | FIXED | | 19 020 – 19 680 | |
| | | | FIXED | |
| 19 680 – 19 800 | MARITIME MOBILE 132 | | 19 680 – 19 800 | |
| | | | MARITIME MOBILE 132 | |
| 19 800 – 19 990 | FIXED | | 19 800 – 19 990 | |
| | | | FIXED | |

kHz 19 990 – 23 350

| Column 1: 1 | TTU Radio Regulations - Table of Free | quency Allocations | Column 2: |
|-----------------|---------------------------------------|--------------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 19 990 – 19 995 | STANDARD FREQUENCY A | AND TIME SIGNAL | 19 990 – 19 995 |
| | Space research | | STANDARD FREQUENCY |
| | | | AND TIME SIGNAL |
| | | | Space research |
| | 111 | | 111 |
| 19 995 – 20 010 | STANDARD FREQUENCY A | AND TIME SIGNAL | 19 995 – 20 010 |
| | (20 000 kHz) | | STANDARD FREQUENCY |
| | | | AND TIME SIGNAL |
| | | | (20 000 kHz) |
| | 111 | | 111 |
| 20 010 - 21 000 | FIXED | | 20 010 - 21 000 |
| | Mobile | | FIXED |
| | | | Mobile |
| 21 000 - 21 450 | AMATEUR | | 21 000 – 21 450 |
| | AMATEURÓSATELLITE | | AMATEUR |
| | | | AMATEURóSATELLITE |
| 21 450 - 21 850 | BROADCASTING | | 21 450 – 21 850 |
| | | | BROADCASTING |
| 21 850 - 21 870 | FIXED 155A | | 21 850 – 21 870 |
| | 155 | | FIXED |
| 21 870 – 21 924 | FIXED 155B | | 21 870 – 21 924 |
| | | | FIXED 155B |
| 21 924 – 22 000 | AERONAUTICAL MOBILE | (R) | 21 924 – 22 000 |
| | | | AERONAUTICAL MOBILE |
| | | | (R) |
| 22 000 – 22 855 | MARITIME MOBILE 132 | | 22 000 – 22 855 |
| | 156 | | MARITIME MOBILE 132 |
| 22 855 – 23 000 | FIXED | | 22 855 – 23 000 |
| | 156 | | FIXED |
| 23 000 – 23 200 | FIXED | | 23 000 – 23 200 |
| | Mobile except aeronautical mo | obile (R) | FIXED |
| | | | Mobile except aeronautical |
| | 156 | | mobile (R) |
| 23 200 – 23 350 | FIXED 156A | | 23 200 – 23 350 |
| | AERONAUTICAL MOBILE | (OR) | FIXED 156A |
| | | | AERONAUTICAL MOBILE |
| | | | (OR) |

kHz 23 350– 26 100

| G 1 4 7 | | <u>0- 26 100 </u> | G 1 2 |
|--------------------|-------------------------------------|---|--------------------------------|
| | ΓU Radio Regulations - Table of Fre | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 23 350 - 24 000 | FIXED | | 23 350 – 24 000 |
| | MOBILE except aeronautical | mobile 157 | FIXED |
| | | | MOBILE except aeronautical |
| | | | mobile (R) 157 |
| 24 000 - 24 450 | FIXED | | 24 000 - 24 890 |
| | LAND MOBILE | | FIXED |
| | | | LAND MOBILE |
| 24 450 - 24 600 | 24 450 – 24 650 | 24 450 – 24 600 | 24 450 – 24 600 |
| FIXED | FIXED | FIXED | FIXED |
| LAND MOBILE | LAND MOBILE | LAND MOBILE | LAND MOBILE |
| Radiolocation 132A | RADIOLOCATION 132A | Radiolocation 132A | Radiolocation 132A |
| 158 | | | |
| 24 600 - 24 890 | | 24 600 - 24 890 | 24 600 - 24 890 |
| FIXED | 24 650 - 24 890 | FIXED | FIXED |
| LAND MOBILE | FIXED | LAND MOBILE | LAND MOBILE |
| | LAND MOBILE | | |
| 24 890 – 24 990 | AMATEUR | | 24 890 – 24 990 |
| | AMATEURÓSATELLITE | | AMATEUR |
| | | | AMATEURÓSATELLITE |
| 24 990 – 25 005 | STANDARD FREQUENCY | AND TIME SIGNAL | 24 990 - 25 005 |
| 21330 2000 | (25 000 kHz) | | STANDARD FREQUENCY |
| | (== ====, | | AND TIME SIGNAL |
| | | | (25 000 kHz) |
| 25 005 - 25 010 | STANDARD FREQUENCY | STANDARD FREQUENCY AND TIME SIGNAL | |
| | Space research | | |
| | Space research | Space research | |
| | | | AND TIME SIGNAL Space research |
| 25 010 - 25 070 | FIXED | | 25 010 – 25 070 |
| 23 010 23 070 | MOBILE except aeronautical | mobile | FIXED |
| | WOBIEE except defondation | moone | MOBILE except aeronautical |
| | | | mobile (R) |
| 25 070 – 25 210 | MARITIME MOBILE | | 25 070 – 25 210 |
| 23 070 - 23 210 | WARTHWE WOBILE | | MARITIME MOBILE |
| 25 210 – 25 550 | FIXED | | 25 210 – 25 550 |
| 25 210 – 25 55V | MOBILE except aeronautical | mobile | FIXED |
| | WODILL except aeronautical | moone | MOBILE except aeronautical |
| | | | mobile (R) |
| 25 550 – 25 670 | RADIO ASTRONOMY | | 25 550 – 25 670 |
| 23 330 - 23 070 | KADIO AS IKONOM I | | RADIO ASTRONOMY |
| | 149 | | 149 |
| 25 670 – 26 100 | BROADCASTING | | 25 670 – 26 100 |
| 25 070 - 20 100 | DRUADCASTING | | |
| | | | BROADCASTING |

kHz 26 100 – 30 010

| Column 1: ITU F | Radio Regulations - Table of Freq | uency Allocations | Column 2: |
|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|
| Region 1 | Region 2 | Kiribati Table of Allocations | |
| 26 100 – 26 175 | MARITIME MOBILE 132 | 26 100 – 26 175 | |
| | | | MARITIME MOBILE 132 |
| 26 175 – 26 200 | FIXED | | 26 175 – 26 200 |
| | MOBILE except aeronautical n | nobile | FIXED |
| | | | MOBILE except aeronautical |
| | 1 | 1 | mobile (R) |
| 26 200 – 26 350 | 26 200 – 26 420 | 26 200 – 26 350 | 26 200 – 26 350 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE except aeronautical mobile (R) |
| Radiolocation 132A 133A | RADIOLOCATION 132A | Radiolocation 132A | Radiolocation 132A |
| 26 350 - 27 500 | | 26 350 - 27 500 | 26 350 - 27 500 |
| FIXED | 26 420 – 27 500 | FIXED | FIXED |
| MOBILE except aeronautical | FIXED | MOBILE except aeronautical | MOBILE except aeronautical |
| mobile | MOBILE except aeronautical mobile | mobile | mobile (R) |
| 150 | 150 | 150 | 150 |
| 27 500 - 28 000 | METEOROLOGICAL AIDS | | 27 500 - 28 000 |
| | FIXED | | METEOROLOGICAL AIDS |
| | MOBILE | | FIXED |
| | | | MOBILE |
| 28 000 – 29 700 | AMATEUR | | 28 000 – 29 700 |
| | AMATEUR 6SATELLITE | | AMATEUR |
| | | | AMATEURÓSATELLITE |
| 29 700 – 30 005 | FIXED | | 29 700 – 30 005 |
| | MOBILE | | FIXED |
| | | | MOBILE |
| 30 005 - 30 010 | SPACE OPERATION (satellite | e identification) | 30 005 - 30 010 |
| | FIXED | | SPACE OPERATION |
| | MOBILE | | (satellite identification) |
| | SPACE RESEARCH | | FIXED |
| | | | MOBILE |
| | | | SPACE RESEARCH |

MHz 30.01 – 38.25

| | 20001 | 00.20 | |
|--|-----------------|----------|-------------------------------|
| Column 1: ITU Radio Regulations - Table of Frequency Allocations | | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 30.01 – 37.5 | FIXED | | 30.01 – 37.5 |
| | MOBILE | | FIXED |
| | | | MOBILE |
| | | | |
| 37.5 – 38.25 | FIXED | | 37.5 – 38.25 |
| | MOBILE | | FIXED |
| | Radio astronomy | | MOBILE |
| | | | Radio astronomy |
| | 149 | | 149 |
| | | | |

MHz 38.25 – 44

| Column 1. ITI | J Radio Regulations - Table of | 38.25 – 44 Frequency Allocations | Column 2: |
|--------------------|--------------------------------|----------------------------------|-------------------------------|
| Region 1 | Region 2 | | Kiribati Table of Allocations |
| 38.25 – 39 | 38.25 – 39.986 | Region 3 38.25 – 39.5 | 38.25 – 39.5 |
| FIXED | 58.25 - 59.980 FIXED | 58.25 – 59.5 FIXED | 58.25 – 59.5 FIXED |
| MOBILE | MOBILE | MOBILE | MOBILE |
| 39 – 39.5 | MOBILE | MOBILE | MOBILE |
| 59 – 59.5 FIXED | | | |
| MOBILE | | | |
| Radiolocation 132A | | | |
| 159 | | | |
| 39.5 – 39.986 | _ | 39.5 – 39.986 | 39.5 – 39.986 |
| FIXED | | 59.5 – 59.980 FIXED | 59.5 – 59.980 FIXED |
| MOBILE | | MOBILE | MOBILE |
| MOBILE | | RADIOLOCATION 132A | RADIOLOCATION 132A |
| 20.005 40.02 | | | |
| 39.986 – 40.02 | | 39.986 – 40 | 39.986 – 40 |
| FIXED | | FIXED | FIXED |
| MOBILE | | MOBILE | MOBILE |
| Space research | | RADIOLOCATION 132A | RADIOLOCATION 132A |
| | | Space research | Space research |
| | | 40 – 40.02 | 40 – 40.02 |
| | | FIXED | FIXED |
| | | MOBILE | MOBILE |
| | | Space research | Space research |
| 40.02 – 40.98 | FIXED | | 40.02 – 40.98 |
| | MOBILE | | FIXED |
| | 150 | | MOBILE |
| | | | 150 |
| 40.98 – 41.015 | FIXED | | 40.98 – 41.015 |
| | MOBILE | | FIXED |
| | Space research | | MOBILE |
| | 160 161 | | Space research |
| 41.015 – 42 | FIXED | | 41.015 – 42 |
| | MOBILE | | FIXED |
| | 160 161 161A | | MOBILE |
| 42 – 42.5 | 42 – 42.5 | | 42 – 42.5 |
| FIXED | FIXED | | FIXED |
| MOBILE | MOBILE | | MOBILE |
| Radiolocation 132A | | | |
| 160 161B | 161 | | |
| 42.5 – 44 | FIXED | | 42.5 – 44 |
| | MOBILE | | FIXED |
| | 160 161 161A | | MOBILE |

MHz 44 – 75.2

| Column 1: ITU R | Column 2: | | |
|----------------------------|-----------------------|--------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 44 – 47 | FIXED | | 44 – 47 |
| | MOBILE | | FIXED |
| | 162 162A | | MOBILE |
| 47 – 68 | 47 – 50 | 47 – 50 | 47 – 50 |
| BROADCASTING | FIXED | FIXED | FIXED |
| | MOBILE | MOBILE | MOBILE |
| | | BROADCASTING | BROADCASTING |
| | | 162A | |
| | 50 – 54 | | 50 – 54 |
| | AMATEUR | | AMATEUR |
| | 162A 166 167 167A 169 | | |
| | 54 – 68 | 54 – 68 | 54 – 68 |
| | BROADCASTING | FIXED | FIXED |
| | Fixed | MOBILE | MOBILE |
| | Mobile | BROADCASTING | BROADCASTING |
| 162A 163 164 165 169 171 | 172 | 162A | |
| 68 – 74.8 | 68 - 72 | 68 – 74.8 | 68 – 74.8 |
| FIXED | BROADCASTING | FIXED | FIXED |
| MOBILE except aeronautical | Fixed | MOBILE | MOBILE |
| mobile | Mobile | | |
| | 173 | | |
| | 72 – 73 | | |
| | FIXED | | |
| | MOBILE | | |
| | 73 – 74.6 | | |
| | RADIO ASTRONOMY | | |
| | 178 | | |
| | 74.6 – 74.8 | | |
| | FIXED | | |
| 149 175 177 179 | MOBILE | 149 176 179 | 149 |
| 74.8 – 75.2 | AERONAUTICAL RADIONA | VIGATION | 74.8 – 75.2 |
| | | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | 180 181 | | 180 |

MHz 75.2 – 137.025

| Column 1: ITI I | Radio Regulations - Table of Fred | nuency Allocations | Column 2: |
|----------------------------|-----------------------------------|--------------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 75.2 – 87.5 | 75.2 – 75.4 | Region 5 | 75.2 – 75.4 |
| FIXED | FIXED | | 73.2 – 73.4 FIXED |
| MOBILE except aeronautical | MOBILE | | MOBILE |
| mobile | 179 | | WIODIEL |
| moone | 75.4 – 76 | 75.4 – 87 | 75.4 – 87 |
| | FIXED | FIXED | FIXED |
| | MOBILE | MOBILE | MOBILE |
| | 76 – 88 | - WOBIEE | Weblet |
| | BROADCASTING | | |
| | Fixed | 182 183 188 | |
| | Mobile | | 07 100 |
| 175 179 187 | | 87 – 100 FIXED | 87 – 100 FIXED |
| 87.5 – 100 | 185 | MOBILE | MOBILE |
| BROADCASTING | 88 – 100 | BROADCASTING | BROADCASTING |
| 190 | BROADCASTING | BROADCASTING | DROADCASTINO |
| 100 – 108 | BROADCASTING | _ <u> </u> | 100 – 108 |
| 100 100 | 192 194 | | BROADCASTING |
| 108 – 117.975 | AERONAUTICAL RADIONA | AVIGATION | 108 – 117.975 |
| 100 117.578 | | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | 197 197A | | 197A |
| 117.975 – 137 | AERONAUTICAL MOBILE (R) | | 117.975 – 137 |
| | | | AERONAUTICAL MOBILE |
| | | | (R) |
| | 111 200 201 202 | | 111 200 |
| 137 – 137.025 | SPACE OPERATION (space- | to-Earth) | 137 – 137.025 |
| | METEOROLOGICALÓSATE | | SPACE OPERATION (space- |
| | SPACE RESEARCH (space-to | o-Earth) | to-Earth) |
| | Fixed | | METEOROLOGICALó |
| | Mobile except aeronautical mo | | SATELLITE (space-to- |
| | Mobile-satellite (space-to-Eart | th) 208A 208B 209 | Earth) |
| | | | SPACE RESEARCH (space- |
| | | | to-Earth) |
| | | | Fixed |
| | | | Mobile except aeronautical |
| | | | mobile (R) |
| | | | Mobile-satellite (space-to- |
| | 204 205 206 225 222 | | Earth) 208A 208B 209 |
| | 204 205 206 207 208 | | 208 |

MHz 137.025 – 138

| | 137.02 | | |
|-------------------|--|--|--|
| | ITU Radio Regulations - Table of Frequ | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 137.025 – 137.175 | SPACE OPERATION (space-to-METEOROLOGICAL6SATEL SPACE RESEARCH (space-to-Fixed Mobileósatellite (space-to-Earth Mobile except aeronautical mobileósatellite) | LITE (space-to-Earth) Earth) 1) 208A 208B 209 | 137.025 – 137.175 SPACE OPERATION (space-to-Earth) METEOROLOGICAL6 SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobileósatellite (space-to-Earth) 208 208A 208B 209 Mobile except aeronautical mobile (R) |
| | 204 205 206 207 208 | | 208 |
| 137.175 – 137.825 | SPACE OPERATION (space-to- METEOROLOGICAL6SATEL MOBILE6SATELLITE (space- SPACE RESEARCH (space-to- Fixed Mobile except aeronautical mob | LITE (space-to-Earth) to-Earth) 208A 208B 209 Earth) | 137.175 – 137.825 SPACE OPERATION (space-to-Earth) METEOROLOGICAL6 SATELLITE (space-to-Earth) MOBILE6SATELLITE (space-to-Earth) 208 208A 208B 209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) |
| | 204 205 206 207 208 | | 208 |
| 137.825 – 138 | SPACE OPERATION (space-to- METEOROLOGICALóSATEL SPACE RESEARCH (space-to- Fixed Mobileósatellite (space-to-Earth Mobile except aeronautical mob | LITE (space-to-Earth) Earth) 1) 208A 208B 209 | 137.825 – 138 SPACE OPERATION (space-to-Earth) METEOROLOGICALó SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobileósatellite (space-to-Earth) 208 208A 208B 209 Mobile except aeronautical mobile (R) |
| | 204 205 206 207 208 | 204 205 206 207 208 | |

MHz 138 – 149.9

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|---------------------------|---------------------------|-------------------------------|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 138 – 143.6 | 138 – 143.6 | 138 – 143.6 | 138 – 143.6 | |
| AERONAUTICAL MOBILE | FIXED | FIXED | FIXED | |
| (OR) | MOBILE | MOBILE | MOBILE | |
| (OK) | RADIOLOCATION | Space research (space-to- | Space research (space-to- | |
| | Space research (space-to- | Earth) | Earth) | |
| 210 211 212 214 | Earth) | 207 213 | Lartii) | |
| 143.6 – 143.65 | 143.6 – 143.65 | 143.6 – 143.65 | 143.6 – 143.65 | |
| AERONAUTICAL MOBILE | FIXED | FIXED | FIXED | |
| (OR) | MOBILE | MOBILE | MOBILE | |
| SPACE RESEARCH (space- | RADIOLOCATION | SPACE RESEARCH (space- | SPACE RESEARCH (space- | |
| to-Earth) | SPACE RESEARCH (space- | to-Earth) | to-Earth) | |
| 211 212 214 | to-Earth) | 207 213 | to-Eartii) | |
| 211 212 214 | , | 207 213 | | |
| 143.65 – 144 | 143.65 – 144 | 143.65 – 144 | 143.65 – 144 | |
| AERONAUTICAL MOBILE | FIXED | FIXED | FIXED | |
| (OR) | MOBILE | MOBILE | MOBILE | |
| | RADIOLOCATION | Space research (space-to- | Space research (space-to- | |
| | Space research (space-to- | Earth) | Earth) | |
| 210 211 212 214 | Earth) | 207 213 | | |
| 144 – 146 | AMATEUR | | 144 – 146 | |
| | AMATEURÓSATELLITE | | AMATEUR | |
| | 216 | | AMATEURÓSATELLITE | |
| 146 – 148 | 146 – 148 | 146 – 148 | 146 – 148 | |
| FIXED | AMATEUR | AMATEUR | AMATEUR | |
| MOBILE except aeronautical | | FIXED | FIXED | |
| mobile (R) | | MOBILE | MOBILE | |
| | 217 | 217 | | |
| 148 – 149.9 | 148 – 149.9 | | 148 – 149.9 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | MOBILE | | |
| mobile (R) | MOBILEóSATELLITE (E | MOBILEóSATELLITE | | |
| MOBILEóSATELLITE | | | (Earth-to-space) 209 | |
| (Earth-to-space) 209 | | | | |
| 218 219 221 | 218 219 221 | | 218 219 221 | |

MHz 149.9 – 156.7625

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|---|-------------------------------|--|--|
| Region 1 | Region 2 | Kiribati Table of Allocations | | |
| 149.9 – 150.05 | Region 2 Region 3 MOBILEÓSATELLITE (Earth-to-space) 209 224A RADIONAVIGATIONÓSATELLITE 224B | | 149.9 – 150.05 MOBILEÓSATELLITE (Earth-to-space) 209 224A RADIONAVIGATIONÓ | |
| | 220 222 223 | | SATELLITE 224B 220 222 223 | |
| 150.05 – 153 | 150.05 – 154 | | 150.05 – 154 | |
| FIXED MOBILE except aeronautical | FIXED MOBILE | | FIXED MOBILE | |
| mobile RADIO ASTRONOMY 149 | | | | |
| 153 – 154 FIXED | | | | |
| MOBILE except aeronautical mobile (R) | | | | |
| Meteorological aids | 225 | | | |
| 154 – 156.4875 | 154 – 156.4875 | 154 – 156.4875 | 154 – 156.4875 | |
| FIXED | FIXED | FIXED | FIXED | |
| MOBILE except aeronautical mobile (R) | MOBILE | MOBILE | MOBILE | |
| 225A 226 | 226 | 225A 226 | 226 | |
| 156.4875 – 156.5625 | MARITIME MOBILE (distress and calling via DSC) 111 226 227 | | 156.4875 – 156.5625 MARITIME MOBILE (distress and calling via DSC) 111 226 227 | |
| 156.5625 – 156.7625 | 156.5625 – 156.7625 | | 156.5625 - 156.7625 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical mobile (R) | MOBILE | | MOBILE | |
| 226 | 225 226 | | 226 | |

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MHz 156.7625 – 174

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|---------------------------|--|-------------------------------|--|
| | | | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 156.7625 – 156.7875 | 156.7625 – 156.7875 | 156.7625 – 156.7875 | 156.7625 – 156.7875 | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | |
| Mobileósatellite (Earth-to- | MOBILEÓSATELLITE | Mobileósatellite (Earth-to- | Mobileósatellite (Earth-to- | |
| space) | (Earth-to-space) | space) | space) | |
| 111 226 228 | 111 226 228 | 111 226 228 | 111 226 228 | |
| 156.7875 – 156.8125 | MARITIME MOBILE (distress | s and calling) | 156.7875 – 156.8125 | |
| | | MARITIME MOBILE (distress and calling) | | |
| | | | | |
| | 111 226 | | 111 226 | |
| 156.8125 – 156.8375 | 156.8125 – 156.8375 | 156.8125 – 156.8375 | 156.8125 – 156.8375 | |
| MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | MARITIME MOBILE | |
| Mobileósatellite (Earth-to- | MOBILEóSATELLITE | Mobileósatellite (Earth-to- | Mobileósatellite (Earth-to- | |
| space) | (Earth-to-space) | space) | space) | |
| 111 226 228 | 111 226 228 | 111 226 228 | 111 226 228 | |
| 156.8375 – 161.9625 | 156.8375 – 161.9625 | | 156.8375 – 161.9625 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | | MOBILE | |
| mobile | | | | |
| 226 | 226 | | 226 | |
| 161.9625 – 161.9875 | 161.9625 – 161.9875 | 161.9625 – 161.9875 | 161.9625 – 161.9875 | |
| FIXED | AERONAUTICAL MOBILE | MARITIME MOBILE | MARITIME MOBILE | |
| MOBILE except aeronautical | (OR) | Aeronautical mobile (OR) | Aeronautical mobile (OR) | |
| mobile | MARITIME MOBILE | 228E | 228E | |
| Mobileósatellite (Earth-to- | MOBILEóSATELLITE | Mobileósatellite (Earth-to- | Mobileósatellite (Earth-to- | |
| space) 228F | (Earth-to-space) | space) 228F | space) 228F | |
| 226 228A 228B | 228C 228D | 226 | 226 | |
| 161.9875 – 162.0125 | 161.9875 - 162.0125 | | 161.9875 - 162.0125 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | | MOBILE | |
| mobile | | | | |
| 226 229 | 226 | | 226 | |
| 162.0125 – 162.0375 | 162.0125 - 162.0375 | 162.0125 – 162.0375 | 162.0125 - 162.0375 | |
| FIXED | AERONAUTICAL MOBILE | MARITIME MOBILE | MARITIME MOBILE | |
| MOBILE except aeronautical | (OR) | Aeronautical mobile (OR) | Aeronautical mobile (OR) | |
| mobile | MARITIME MOBILE | 228E | 228E | |
| Mobileósatellite (Earth-to- | MOBILEóSATELLITE | Mobileósatellite (Earth-to- | Mobileósatellite (Earth-to- | |
| space) 228F | (Earth-to-space) | space) 228F | space) 228F | |
| 226 228A 228B 229 | 228C 228D | 226 | 226 | |
| 162.0375 – 174 | 162.0375 – 174 | | 162.0375 – 174 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE | | MOBILE | |
| mobile | | | | |
| 226 229 | 226 230 231 232 | | 226 | |
| | • | | • | |

MHz 174 – 273

| 174 – 273 | | | | |
|--------------|------------------------------------|-----------------|-------------------------------|--|
| | ITU Radio Regulations - Table of I | | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 174 – 223 | 174 – 216 | 174 – 223 | 174 – 223 | |
| BROADCASTING | BROADCASTING | FIXED | FIXED | |
| | Fixed | MOBILE | MOBILE | |
| | Mobile | BROADCASTING | BROADCASTING | |
| | 234 | | | |
| | 216 – 220 | | | |
| | FIXED | | | |
| | MARITIME MOBILE | | | |
| | Radiolocation 241 | | | |
| | 242 | | | |
| | 220 – 225 | | | |
| | AMATEUR | | | |
| 235 237 243 | FIXED | 233 238 240 245 | | |
| 223 – 230 | MOBILE | 223 – 230 | 223 – 230 | |
| BROADCASTING | Radiolocation 241 | FIXED | FIXED | |
| Fixed | 225 – 235 | MOBILE | MOBILE | |
| Mobile | FIXED | BROADCASTING | BROADCASTING | |
| | MOBILE | AERONAUTICAL | AERONAUTICAL | |
| | | RADIONAVIGATION | RADIONAVIGATION | |
| | | Radiolocation | Radiolocation | |
| 243 246 247 | | 250 | | |
| 230 – 235 | | 230 – 235 | 230 – 235 | |
| FIXED | | FIXED | FIXED | |
| MOBILE | | MOBILE | MOBILE | |
| | | AERONAUTICAL | AERONAUTICAL | |
| | | RADIONAVIGATION | RADIONAVIGATION | |
| 247 251 252 | | 250 | | |
| 235 – 267 | FIXED | | 235 – 267 | |
| | MOBILE | | FIXED | |
| | | | MOBILE | |
| | 111 252 254 256 256A | | 111 254 256 | |
| 267 – 272 | FIXED | | 267 – 272 | |
| | MOBILE | | FIXED | |
| | Space operation (space-to-I | Earth) | MOBILE | |
| | | | Space operation (space-to- | |
| | | | Earth) | |
| | 254 257 | | 254 257 | |
| 272 – 273 | SPACE OPERATION (spa | ce-to-Earth) | 272 – 273 | |
| | FIXED | | SPACE OPERATION (space- | |
| | MOBILE | | to-Earth) | |
| | | | FIXED | |
| | 254 | | MOBILE | |

MHz 273 – 399.9

| | 273 – 399.9 | | Column 2: | | |
|---------------|--|-----------------|-------------------------------|--|--|
| | Column 1: ITU Radio Regulations - Table of Frequency Allocations | | | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 273 – 312 | FIXED | | 273 – 312 | | |
| | MOBILE | | FIXED | | |
| | | | MOBILE | | |
| | 254 | | 254 | | |
| 312 – 315 | FIXED | | 312 – 315 | | |
| | MOBILE | | FIXED | | |
| | Mobileósatellite (Earth-to-space) 25 | 4 255 | MOBILE | | |
| | | | Mobileósatellite (Earth-to- | | |
| | | | space) 254 255 | | |
| 315 – 322 | FIXED | | 315 – 322 | | |
| | MOBILE | | FIXED | | |
| | | | MOBILE | | |
| | 254 | | 254 | | |
| 322 – 328.6 | FIXED | | 322 – 328.6 | | |
| | MOBILE | MOBILE | | | |
| | RADIO ASTRONOMY | | MOBILE | | |
| | | | RADIO ASTRONOMY | | |
| | 149 | | 149 | | |
| 328.6 – 335.4 | AERONAUTICAL RADIONAVIGA | ATION 258 | 328.6 – 335.4 | | |
| | | | AERONAUTICAL | | |
| | | | RADIONAVIGATION | | |
| | 259 | | 258 | | |
| 335.4 – 387 | FIXED | | 335.4 – 387 | | |
| | MOBILE | MOBILE | | | |
| | | | MOBILE | | |
| | | | | | |
| | 254 | | 254 | | |
| 387 – 390 | FIXED | | 387 – 390 FIXED | | |
| | | MOBILE | | | |
| | Mobileósatellite (space-to-Earth) 20 | 8A 208B 254 255 | MOBILE | | |
| | | | Mobileósatellite (space-to- | | |
| | | | Earth) 208A 208B 254 | | |
| | | | 255 | | |
| 390 – 399.9 | FIXED | | 390 – 399.9 | | |
| | MOBILE | | FIXED | | |
| | | | MOBILE | | |
| | 254 | | 254 | | |

MHz 399.9 – 402

| Column 1: 1 | TU Radio Regulations - Table of Frequency | - 402 | Column 2: |
|-----------------|---|---|---|
| Region 1 | Region 2 | Kiribati Table of Allocations | |
| 399.9 – 400.05 | MOBILEóSATELLITE (Earth- | Region 3 | 399.9 – 400.05 |
| 377.7 - 400.03 | RADIONAVIGATION6SATE | | MOBILEóSATELLITE (Earth-to-space) 209 224A |
| | | | RADIONAVIGATION6 SATELLITE 222 224B 260 |
| | 220 | | 220 |
| 400.05 – 400.15 | STANDARD FREQUENCY A SATELLITE (400.1 MHz) | ND TIME SIGNAL6 | 400.05 – 400.15 STANDARD FREQUENCY AND TIME SIGNAL6 SATELLITE (400.1 MHz) |
| | 261 262 | | 261 |
| 400.15 – 401 | METEOROLOGICAL AIDS METEOROLOGICALÓSATEL MOBILEÓSATELLITE (space- SPACE RESEARCH (space-to- Space operation (space-to-Earth | to-Earth) 208A 208B 209 -Earth) 263 | 400.15 – 401 METEOROLOGICAL AIDS METEOROLOGICALÓ SATELLITE (space-to-Earth) MOBILEÓSATELLITE (space-to-Earth) 208A 208B 209 SPACE RESEARCH (space-to-Earth) 263 Space operation (space-to-Earth) |
| 401 – 402 | 262 264 METEOROLOGICAL AIDS SPACE OPERATION (space-to EARTH EXPLORATIONÓSAT METEOROLOGICALÓSATEL Fixed Mobile except aeronautical mob | TELLITE (Earth-to-space) LITE (Earth-to-space) | 264 401 – 402 EARTH EXPLORATION6 SATELLITE (Earth-to-space) METEOROLOGICAL AIDS METEOROLOGICAL6 SATELLITE (Earth-to-space) SPACE OPERATION (space-to-Earth) Fixed Mobile except aeronautical mobile (R) |

MHz 402 ó 430

| G 1 1 1 | 402 ó 430 | | |
|-------------|--|-----------------------------------|---|
| | ITU Radio Regulations - Table of Frequenc | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations 402 – 403 |
| 402 – 403 | | METEOROLOGICAL AIDS | |
| | EARTH EXPLORATION6SATELI | | EARTH EXPLORATION6 |
| | METEOROLOGICALóSATELLIT | E (Earth-to-space) | SATELLITE (Earth-to- |
| | Fixed | | space) METEOROLOGICAL AIDS |
| | Mobile except aeronautical mobile | Mobile except aeronautical mobile | |
| | | | METEOROLOGICAL6 |
| | | | SATELLITE (Earth-to- |
| | | | space) |
| | | | Fixed |
| | | | Mobile except aeronautical |
| | | | mobile (R) |
| 403 – 406 | METEOROLOGICAL AIDS | | 403 – 406 |
| | Fixed | | METEOROLOGICAL AIDS |
| | Mobile except aeronautical mobile | | Fixed |
| | | | Mobile except aeronautical |
| 106 1061 | MODIFICATION AND A STATE OF THE | | mobile |
| 406 – 406.1 | MOBILEóSATELLITE (Earth-to-s _l | pace) | 406 – 406.1 |
| | | | MOBILEÓSATELLITE |
| | 266 267 | | (Earth-to-space) |
| 406.1 – 410 | 266 267 | | 266 267 |
| 406.1 – 410 | FIXED | | 406.1 – 410 ENED |
| | MOBILE except aeronautical mobil RADIO ASTRONOMY | e | FIXED |
| | RADIO AS IRONOMY | | MOBILE except aeronautical |
| | | | mobile (R) RADIO ASTRONOMY |
| | | | Radiolocation AUS29 |
| | 149 | | 149 AUS98 |
| 410 – 420 | FIXED | | 410 – 420 |
| 410 - 420 | MOBILE except aeronautical mobil | Δ | FIXED |
| | SPACE RESEARCH (space-to-space | | MOBILE except aeronautical |
| | SI ACE RESEARCH (space-to-space | 200 | mobile |
| | | | SPACE RESEARCH (space- |
| | | | to-space) 268 |
| 420 – 430 | FIXED | | 420 – 430 |
| 120 100 | MOBILE except aeronautical mobil | e | FIXED |
| | Radiolocation | • | MOBILE except aeronautical |
| | Radiolocation | | mobile |
| | 269 270 271 | | Radiolocation |
| | = - > - · > - · · · | | |

MHz 430 – 460

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|------------------------------|------------------------|-------------------------------|--|
| | | | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 430 – 432 | 430 – 432 | | 430 – 432 | |
| AMATEUR | RADIOLOCATION | | RADIOLOCATION | |
| RADIOLOCATION | Amateur | | Amateur | |
| 271 274 275 276 277 | 271 276 277 278 279 | | | |
| 432 – 438 | 432 – 438 | | 432 – 438 | |
| AMATEUR | RADIOLOCATION | | RADIOLOCATION | |
| RADIOLOCATION | Amateur | | Amateur | |
| Earth explorationósatellite | Earth explorationósatellite | e (active) 279A | Earth explorationósatellite | |
| (active) 279A | 1 | ` ' | (active) 279A | |
| 138 271 276 277 280 281 | | | | |
| 282 | 271 276 277 278 279 2 | 81 282 | 282 | |
| 438 – 440 | 438 – 440 | | 438 – 440 | |
| AMATEUR | RADIOLOCATION | | RADIOLOCATION | |
| RADIOLOCATION | Amateur | | Amateur | |
| 271 274 275 276 277 283 | 271 276 277 278 279 | | 1 maccar | |
| 440 – 450 | FIXED | | 440 – 450 | |
| 110 130 | MOBILE except aeronautical n | nobile | FIXED | |
| | Radiolocation | loone | MOBILE except aeronautical | |
| | Radiolocation | | mobile | |
| | | | Radiolocation | |
| | 269 270 271 284 285 286 | | 286 | |
| 450 – 455 | FIXED | 450 – 455 | | |
| 430 – 433 | MOBILE 286AA | | FIXED | |
| | MOBILE 200AA | | MOBILE 286AA | |
| | 209 271 286 286A 286B 286 | 6C 286D 286E | 209 286 286A | |
| 455 – 456 | 455 – 456 | 455 – 456 | 455 – 456 | |
| FIXED | FIXED | FIXED | FIXED | |
| | | | | |
| MOBILE 286AA | MOBILE 286AA | MOBILE 286AA | MOBILE 286AA | |
| | MOBILEÓSATELLITE | | | |
| 200 271 2964 2965 2966 | (Earth-to-space) 286A | 200 271 2964 296B 296G | | |
| 209 271 286A 286B 286C | 286B 286C | 209 271 286A 286B 286C | 200 2064 | |
| 286E | 209 | 286E | 209 286A | |
| 456 – 459 | FIXED | | 456 – 459 | |
| | MOBILE 286AA | | FIXED | |
| | 271 287 288 | | MOBILE 286AA | |
| 150 160 | I 1=0 150 | 1 1=0 100 | 287 | |
| 459 – 460 | 459 – 460 | 459 – 460 | 459 – 460 | |
| FIXED | FIXED | FIXED | FIXED | |
| MOBILE 286AA | MOBILE 286AA | MOBILE 286AA | MOBILE 286AA | |
| | MOBILEóSATELLITE | | | |
| | (Earth-to-space) 286A | | | |
| 209 271 286A 286B 286C | 286B 286C | 209 271 286A 286B 286C | | |
| 286E | 209 | 286E | 209 286A | |

MHz 460 – 890

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|----------------------------------|--------------------------|--|--|
| | | Region 3 | Kiribati Table of Allocations | |
| Region 1 460 – 470 | Region 2 FIXED | Region 3 | 460 – 470 | |
| 400 - 470 | MOBILE 286AA | | 400 – 470 FIXED | |
| | | to Forth) | MOBILE 286AA | |
| | Meteorologicalósatellite (space- | to-Earth) | | |
| | | | Meteorologicalósatellite (space-to-Earth) | |
| | 287 288 289 290 | | (space-to-Earth) 287 289 | |
| 470 – 790 | 470 - 512 | 470 – 585 | 470 – 585 | |
| BROADCASTING | | FIXED | FIXED | |
| BRUADCASTING | BROADCASTING | | | |
| | Fixed | MOBILE | MOBILE | |
| | Mobile | BROADCASTING | BROADCASTING | |
| | 292 293 | | | |
| | 512 – 608 | 201 200 | | |
| | BROADCASTING | 291 298 | 505 (10 | |
| | 297 | 585 – 610 | 585 – 610 | |
| | 608 – 614 | FIXED | FIXED | |
| | RADIO ASTRONOMY | MOBILE | MOBILE | |
| | Mobileósatellite except | BROADCASTING | BROADCASTING | |
| | aeronautical mobileósatellite | RADIONAVIGATION | RADIONAVIGATION | |
| | (Earth-to-space) | 149 305 306 307 | 149 306 | |
| | | 610 – 890 | 610 – 890 | |
| | 614 – 698 | FIXED | FIXED | |
| | BROADCASTING | MOBILE 313A 317A | MOBILE 317A | |
| | Fixed | BROADCASTING | BROADCASTING | |
| | Mobile | | | |
| | 293 309 311A | | | |
| | 698 – 806 | | | |
| 149 291A 294 296 300 304 | MOBILE 313B 317A | | | |
| 306 311A 312 312A | BROADCASTING | | | |
| 790 – 862 | Fixed | | | |
| FIXED | 293 309 311A | | | |
| MOBILE except aeronautical | 806 – 890 | | | |
| mobile 316B 317A | FIXED | | | |
| BROADCASTING | MOBILE 317A | | | |
| 312 314 315 316 316A 319 | BROADCASTING | | | |
| 862 – 890 | | | | |
| FIXED | | | | |
| MOBILE except aeronautical | | | | |
| mobile 317A | | | | |
| BROADCASTING 322 | | | | |
| 319 323 | 317 318 | 149 305 306 307 311A 320 | 149 306 311A 320 KIR1 | |

MHz 890 – 1 215

| | 890 – | | |
|----------------------------|--|--------------------|-------------------------------|
| | Column 1: ITU Radio Regulations - Table of Frequency | | mn 2: |
| | Allocations | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 890 – 942 FIXED | 890 – 902 FIXED | 890 – 942 FIXED | 890 – 942 FIXED |
| MOBILE except aeronautical | MOBILE except aeronautical | MOBILE 317A | MOBILE 317A |
| mobile 317A | mobile 317A | BROADCASTING | BROADCASTING |
| BROADCASTING 322 | Radiolocation | Radiolocation | Radiolocation |
| Radiolocation | 318 325 | | |
| | 902 – 928 | | |
| | FIXED | | |
| | Amateur | | |
| | Mobile except aeronautical | | |
| | mobile 325A | | |
| | Radiolocation | | |
| | 150 325 326 928 – 942 | | |
| | 928 – 942 FIXED | | |
| | MOBILE except aeronautical | | |
| | mobile 317A | | |
| | Radiolocation | | |
| 323 | 325 | 327 | |
| 942 – 960 | 942 – 960 | 942 – 960 | 942 – 960 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE except aeronautical | MOBILE 317A | MOBILE 317A | MOBILE 317A |
| mobile 317A | | BROADCASTING | BROADCASTING |
| BROADCASTING 322 | | | |
| 323 | | 320 | 320 |
| 960 – 1 164 | AERONAUTICAL RADIONA | | 960 – 1 164 |
| | AERONAUTICAL MOBILE (1 | R) 32/A | AERONAUTICAL |
| | | | RADIONAVIGATION 328 |
| | | | AERONAUTICAL MOBILE |
| | | | (R) 327A |
| 1 164 – 1 215 | AERONAUTICAL RADIONA | VIGATION 328 | 1 164 – 1 215 |
| | RADIONAVIGATIONÓSATE | | AERONAUTICAL |
| | to-space) 328B | | RADIONAVIGATION |
| | . , | | 328 |
| | | | RADIONAVIGATIONó |
| | | | SATELLITE (space-to- |
| | | | Earth) (space-to-space) |
| | | | 328B |
| | 328A | | 328A |

MHz 1 215 – 1 427

| Column 1 · I | ΓU Radio Regulations - Table of Frequ | | Column 2: |
|------------------------|--|--------------------------------|--|
| | Region 2 | | Kiribati Table of Allocations |
| Region 1 1 215 – 1 240 | E | Region 3 | 1 215 – 1 240 |
| 1 215 – 1 240 | EARTH EXPLORATION6SAT RADIOLOCATION | ELLITE (active) | EARTH EXPLORATION6 |
| | | LITE (change to Forth) (change | |
| | RADIONAVIGATIONóSATEI to-space) 328B 329 329A | LLITE (space-to-Earth) (space- | SATELLITE (active) RADIOLOCATION |
| | SPACE RESEARCH (active) | | RADIOLOCATION RADIONAVIGATION6 |
| | SPACE RESEARCH (active) | | |
| | | | SATELLITE (space-to- |
| | | | Earth) (space-to-space) 328B 329 329A |
| | | | SPACE RESEARCH (active) |
| | 220, 221, 222 | | ` ′ |
| 1 240 – 1 300 | 330 331 332 | TELLITE (active) | 332 1 240 – 1 300 |
| 1 240 – 1 300 | EARTH EXPLORATION 6SAT | ELLITE (active) | |
| | RADIOLOCATION | LITE (see to Earth) (see | EARTH EXPLORATION6 |
| | RADIONAVIGATIONÓSATEI | LLITE (space-to-Eartn) (space- | SATELLITE (active) |
| | to-space) 328B 329 329A | | RADIOLOCATION |
| | SPACE RESEARCH (active) | | RADIONAVIGATION6 |
| | Amateur | | SATELLITE (space-to- |
| | | | Earth) (space-to-space) 328B 329 329A |
| | | | |
| | | | SPACE RESEARCH (active) |
| | 282 220 221 222 225 225 4 | | Amateur 282 332 335A |
| 1 300 – 1 350 | 282 330 331 332 335 335A AERONAUTICAL RADIONA | VICATION 227 | |
| 1 300 - 1 330 | RADIOLOCATION | VIGATION 337 | 1 300 – 1 350 AERONAUTICAL |
| | | LITE (Earth to among) | |
| | RADIONAVIGATION6SATEI | LLITE (Earth-to-space) | RADIONAVIGATION 337 |
| | | | RADIOLOCATION |
| | | | RADIONAVIGATION6 |
| | | | SATELLITE (Earth-to- |
| | | | space) |
| | 149 337A | | 149 337A |
| 1 350 - 1 400 | 1 350 – 1 400 | | 1 350 – 1 400 |
| FIXED | RADIOLOCATION 338A | | RADIOLOCATION 338A |
| MOBILE | KIDIOLOCITION 550F | 1 | In Diolocation 550A |
| RADIOLOCATION | | | |
| 149 338 338A 339 | 149 334 339 | | 149 338A 339 |
| 1400 – 1427 | EARTH EXPLORATION6SAT | ELLITE (passive) | 1 400 – 1 427 |
| I IVV I IM/ | RADIO ASTRONOMY | passive) | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | 2111221222111CII (pussive) | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 341 | | 340 341 |
| | | | 1 |

MHz 1 427 – 1 530

| 1 427 – 1 530 | | | | |
|-----------------------------|--|-----------------------------|-------------------------------|--|
| | Radio Regulations - Table of Frequency | | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 1 427 – 1 429 | SPACE OPERATION (Earth-to | 1 427 – 1 429 | | |
| | FIXED | SPACE OPERATION (Earth- | | |
| | MOBILE except aeronautical m | to-space) | | |
| | | | FIXED | |
| | | MOBILE except aeronautical | | |
| | | | mobile | |
| | 338A 341 | | 338A 341 | |
| 1 429 – 1 452 | 1 429 – 1 452 | | 1 429 – 1 452 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE 343 | | MOBILE | |
| mobile | | | | |
| 338A 341 342 | 338A 341 | | 338A 341 | |
| 1 452 – 1 492 | 1 452 – 1 492 | | 1 452 – 1 492 | |
| FIXED | FIXED | | FIXED | |
| MOBILE except aeronautical | MOBILE 343 | | MOBILE 343 | |
| mobile | BROADCASTING 345 | | BROADCASTING 345 | |
| BROADCASTING 345 | BROADCASTINGÓSATE | ELLITE 208B 345 | BROADCASTINGó | |
| BROADCASTINGó | | | SATELLITE 208B 345 | |
| SATELLITE 208B 345 | | | | |
| 341 342 | 341 344 | | 341 | |
| 1 492 – 1 518 | 1 492 – 1 518 | 1 492 – 1 518 | 1 492 – 1 518 | |
| FIXED | FIXED | FIXED | FIXED | |
| MOBILE except aeronautical | MOBILE 343 | MOBILE | MOBILE | |
| mobile | | | | |
| 341 342 | 341 344 | 341 | 341 | |
| 1 518 – 1 525 | 1 518 – 1 525 | 1 518 – 1 525 | 1 518 – 1 525 | |
| FIXED | FIXED | FIXED | FIXED | |
| MOBILE except aeronautical | MOBILE 343 | MOBILE | MOBILE 343 | |
| mobile | MOBILEóSATELLITE | MOBILEóSATELLITE | MOBILEóSATELLITE | |
| MOBILEóSATELLITE | (space-to-Earth) 348 | (space-to-Earth) 348 | (space-to-Earth) 348 | |
| (space-to-Earth) 348 | 348A 348B 351A | 348A 348B 351A | 348A 348B 351A | |
| 348A 348B 351A | | | | |
| 341 342 | 341 344 | 341 | 341 | |
| 1 525 – 1 530 | 1 525 – 1 530 | 1 525 – 1 530 | 1 525 – 1 530 | |
| SPACE OPERATION (space- | SPACE OPERATION (space- | SPACE OPERATION (space- | SPACE OPERATION (space- | |
| to-Earth) | to-Earth) | to-Earth) | to-Earth) | |
| FIXED | MOBILEÓSATELLITE | FIXED | FIXED | |
| MOBILEÓSATELLITE | (space-to-Earth) 208B | MOBILEÓSATELLITE | MOBILEóSATELLITE | |
| (space-to-Earth) 208B | 351A | (space-to-Earth) 208B | (space-to-Earth) 208B | |
| 351A | Earth explorationósatellite | 351A | 351A | |
| Earth explorationósatellite | Fixed | Earth explorationósatellite | Earth explorationósatellite | |
| Mobile except aeronautical | Mobile 343 | Mobile 349 | Mobile 349 | |
| mobile 349 | | | | |
| 341 342 350 351 352A 354 | 341 351 354 | 341 351 352A 354 | 341 351 352A 354 | |

MHz 1 530 – 1 613.8

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|---|---|--|--|--|
| | | | Column 2: | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 1 530 – 1 535 SPACE OPERATION (space-to-Earth) MOBILEÓSATELLITE (space-to-Earth) 208B 351A 353A Earth explorationósatellite Fixed Mobile except aeronautical | 1 530 – 1 535 SPACE OPERATION (sp. MOBILE6SATELLITE (s 353A Earth explorationósatellite Fixed Mobile 343 | 1 530 – 1 535 SPACE OPERATION (space-to-Earth) MOBILEÓSATELLITE (space-to-Earth) 208B 351A 353A Earth explorationósatellite Fixed Mobile 343 | | |
| mobile | 241 251 254 | | 241 251 254 | |
| 341 342 351 354 | 341 351 354 | 4- E4-) 200D 251A | 341 351 354 1 535 – 1 559 | |
| 1 535 – 1 559 | MOBILEÓSATELLITE (space- 341 351 353A 354 355 356 | MOBILE6SATELLITE (space-to-Earth) 208B 351A 341 351 353A 354 356 357 357A 362A | | |
| 1 559 – 1 610 | AERONAUTICAL RADIONA | | 1 559 – 1 610 | |
| | RADIONAVIGATION6SATE to-space) 208B 328B 329A 341 362B 362C | AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-to-Earth) (space-to-space) 208B 328B 329A 341 | | |
| 1 610 – 1 610.6 | 1 610 – 1 610.6 | 1 610 – 1 610.6 | 1 610 – 1 610.6 | |
| MOBILEÓSATELLITE (Earth-to-space) 351A AERONAUTICAL RADIONAVIGATION | MOBILEÓSATELLITE (Earth-to-space) 351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATIONÓ SATELLITE (Earth-to-space) | MOBILEóSATELLITE (Earth-to-space) 351A AERONAUTICAL RADIONAVIGATION Radiodeterminationósatellite (Earth-to-space) | MOBILEÓSATELLITE (Earth-to-space) 351A AERONAUTICAL RADIONAVIGATION Radiodeterminationósatellite (Earth-to-space) | |
| 341 355 359 364 366 367 368 369 371 372 | 341 364 366 367 368 370 372 | 341 355 359 364 366 367 368 369 372 | 341 364 366 367 368 369 372 | |
| 1 610.6 – 1 613.8 MOBILE6SATELLITE (Earth-to-space) 351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION | 1 610.6 – 1 613.8 MOBILE6SATELLITE (Earth-to-space) 351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION RADIODETERMINATION6 SATELLITE (Earth-to-space) | 1 610.6 – 1 613.8 MOBILEÓSATELLITE (Earth-to-space) 351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodeterminationósatellite (Earth-to-space) | 1 610.6 – 1 613.8 MOBILEÓSATELLITE (Earth-to-space) 351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodeterminationósatellite (Earth-to-space) | |
| 149 341 355 359 364 366 367 368 369 371 372 | 149 341 364 366 367 368 370 372 | 149 341 355 359 364 366 367 368 369 372 | 149 341 364 366 367 368 369 372 | |

MHz 1 613.8 – 1 668.4

| Column 1: ITI I | Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
|--|--|------------------------------|--|--|--|
| | | | | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 1 613.8 – 1 626.5 | 1 613.8 – 1 626.5 | 1 613.8 – 1 626.5 | 1 613.8 – 1 626.5 | | |
| MOBILEÓSATELLITE | MOBILEÓSATELLITE | MOBILEÓSATELLITE | MOBILEÓSATELLITE | | |
| (Earth-to-space) 351A | (Earth-to-space) 351A | (Earth-to-space) 351A | (Earth-to-space) 351A | | |
| AERONAUTICAL | AERONAUTICAL | AERONAUTICAL | AERONAUTICAL | | |
| RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION | | |
| Mobileósatellite (space-to- | RADIODETERMINATION6 | Mobileósatellite (space-to- | Mobileósatellite (space-to- | | |
| Earth) 208B | SATELLITE (Earth-to- | Earth) 208B | Earth) 208B | | |
| | space) Mobileósatellite (space-to- | Radiodeterminationósatellite | Radiodeterminationósatellite | | |
| | ` - | (Earth-to-space) | (Earth-to-space) | | |
| 341 355 359 364 365 366 | Earth) 208B 341 364 365 366 367 368 | 341 355 359 364 365 366 | 341 364 365 366 367 368 | | |
| | | | | | |
| 367 368 369 371 372 1 626.5 – 1 660 | MODIL E 6S A TELL LITE (Forth | 367 368 369 372 | 369 372 1 626.5 – 1 660 | | |
| 1 020.5 - 1 000 | MOBILEóSATELLITE (Earth- | to-space) 331A | MOBILEÓSATELLITE | | |
| | | | | | |
| | | | (Earth-to-space) 351A 341 351 353A 354 357A | | |
| | 241 251 2524 254 255 2577 | 250 2624 274 275 276 | 375 376 | | |
| 1 660 – 1 660.5 | 341 351 353A 354 355 357A MOBILEóSATELLITE (Earth- | | 1 660 – 1 660.5 | | |
| 1 000 – 1 000.5 | RADIO ASTRONOMY | to-space) 331A | MOBILEÓSATELLITE | | |
| | RADIO ASTRONOMT | | (Earth-to-space) 351A | | |
| | | | AUS65 | | |
| | | RADIO ASTRONOMY | | | |
| | 149 341 351 354 362A 376A | A | 149 341 351 354 376A | | |
| 1 660.5 – 1 668 | RADIO ASTRONOMY | 1 | 1 660.5 – 1 668 | | |
| 1 000.5 1 000 | SPACE RESEARCH (passive) | | RADIO ASTRONOMY | | |
| | Fixed | | SPACE RESEARCH | | |
| | Mobile except aeronautical mob | (passive) | | | |
| | modern cheept acromatical mod | , | Fixed | | |
| | | | Mobile except aeronautical | | |
| | | | mobile | | |
| | 149 341 379 379A | | 149 341 379A | | |
| 1 668 – 1 668.4 | MOBILEóSATELLITE (Earth- | to-space) 351A 379B 379C | 1 668 – 1 668.4 | | |
| 1 | RADIO ASTRONOMY | 1 | MOBILEÓSATELLITE | | |
| | SPACE RESEARCH (passive) | | (Earth-to-space) 351A | | |
| | Fixed | | 379B 379C | | |
| | Mobile except aeronautical mol | RADIO ASTRONOMY | | | |
| | • | | SPACE RESEARCH | | |
| | | | (passive) | | |
| | | | Fixed | | |
| | | | Mobile except aeronautical | | |
| | | | mobile | | |
| | 149 341 379 379A | | 149 341 379A | | |

MHz 1 668.4 – 1 710

| | 1 668.4 – 1 710 | | | | |
|------------------------------|---|------------------------------------|-----------------------------------|--|--|
| | Column 1: ITU Radio Regulations - Table of Frequency Allocations Co | | | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 1 668.4 – 1 670 | METEOROLOGICAL AIDS | | 1 668.4 – 1 670 | | |
| | FIXED | | METEOROLOGICAL AIDS | | |
| | MOBILE except aeronautical m | | FIXED | | |
| | MOBILEóSATELLITE (Earth- | to-space) 351A 379B 379C | MOBILE except aeronautical mobile | | |
| | RADIO ASTRONOMY | RADIO ASTRONOMY | | | |
| | | | MOBILEóSATELLITE | | |
| | | (Earth-to-space) 351A 379B 379C | | | |
| | | | RADIO ASTRONOMY | | |
| | 149 341 379D 379E | | 149 341 379D 379E | | |
| 1 670 – 1 675 | METEOROLOGICAL AIDS | | 1 670 – 1 675 | | |
| | FIXED | | METEOROLOGICAL AIDS | | |
| | METEOROLOGICALÓSATEL | LITE (space-to-Earth) | FIXED | | |
| | MOBILE | · • | METEOROLOGICALó | | |
| | MOBILEóSATELLITE (Earth- | to-space) 351A 379B | SATELLITE (space-to- | | |
| | | • | Earth) | | |
| | | | MOBILE | | |
| | | | MOBILEóSATELLITE | | |
| | | | (Earth-to-space) 351A | | |
| | | | 379B | | |
| | 341 379D 379E 380A | | 341 379D 379E 380A | | |
| 1 675 – 1 690 | METEOROLOGICAL AIDS | | 1 675 – 1 690 | | |
| | FIXED | | METEOROLOGICAL AIDS | | |
| | METEOROLOGICALÓSATEL | FIXED | | | |
| | MOBILE except aeronautical mobile | | METEOROLOGICALó | | |
| | | | SATELLITE (space-to- | | |
| | | Earth) | | | |
| | | | MOBILE except aeronautical | | |
| | | | mobile | | |
| | 341 | | 341 | | |
| 1 690 – 1 700 | 1 690 – 1 700 | | 1 690 – 1 700 | | |
| METEOROLOGICAL AIDS | METEOROLOGICAL AI | | METEOROLOGICAL AIDS | | |
| METEOROLOGICAL6 | METEOROLOGICALÓSA | ATELLITE (space-to-Earth) | METEOROLOGICAL6 | | |
| SATELLITE (space-to- | | | SATELLITE (space-to- | | |
| Earth) | | | Earth) | | |
| Fixed | | | | | |
| Mobile except aeronautical | | | | | |
| mobile | 200 241 201 | 290 241 | | | |
| 289 341 382 1 700 – 1 710 | 289 341 381 | 289 341 1 700 – 1 710 | | | |
| FIXED | | 1 700 – 1 710 FIXED | FIXED | | |
| | ATELLITE (space-to-Earth) | METEOROLOGICALó | METEOROLOGICALó | | |
| MOBILE except aeronauti | | SATELLITE (space-to- | SATELLITE (space-to- | | |
| WIGBILL except aeronauti | car moone | Earth) | Earth) | | |
| | | MOBILE except aeronautical | MOBILE except aeronautical | | |
| | | mobile | mobile | | |
| 289 341 | | 289 341 384 | 289 341 | | |
| 207 311 | | 20, 311 301 | 20, 511 | | |

MHz 1 710 – 2 120

| Г | | <u>- 2 120</u> | |
|----------------------|--|--|--|
| | U Radio Regulations - Table of Freq | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 1 710 – 1 930 | FIXED | | 1 710 – 1 930 |
| | MOBILE 384A 388A 388B | | FIXED |
| | | | MOBILE 384A 388A |
| | 149 341 385 386 387 388 | | 149 341 385 386 388 |
| 1 930 – 1 970 | 1 930 – 1 970 | 1 930 – 1 970 | 1 930 – 1 970 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE 388A 388B | MOBILE 388A 388B | MOBILE 388A 388B | MOBILE 388A |
| | Mobileósatellite (Earth-to- | | |
| | space) | | |
| 388 | 388 | 388 | 388 |
| 1 970 – 1 980 | FIXED | | 1 970 – 1 980 |
| | MOBILE 388A 388B | | FIXED |
| | •00 | | MOBILE 388A |
| | 388 | | 388 |
| 1 980 – 2 010 | FIXED | | 1 980 – 2 010 |
| | MOBILE | | FIXED |
| | MOBILEÓSATELLITE (Earth | -to-space) 351A | MOBILE |
| | | | MOBILE6SATELLITE |
| | 200 200 A 200 B 200 E | | (Earth-to-space) 351A |
| 2010 2025 | 388 389A 389B 389F | 2010 2027 | 388 389A |
| 2 010 – 2 025 | 2 010 – 2 025 | 2 010 – 2 025 | 2 010 – 2 025 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE 388A 388B | MOBILE | MOBILE 388A 388B | MOBILE 388A |
| | MOBILEÓSATELLITE | | |
| 200 | (Earth-to-space) | 200 | 200 |
| 388 2 025 – 2 110 | 388 389C 389E | 388 | 388 |
| 2 025 - 2 110 | SPACE OPERATION (Earth-t | | 2 025 – 2 110 SPACE OPERATION (Family |
| | EARTH EXPLORATION6SA | IELLITE (Eartn-to-space) | SPACE OPERATION (Earth- |
| | (space-to-space) FIXED | | to-space) (space-to-space) EARTH EXPLORATIONó |
| | MOBILE 391 | | SATELLITE (Earth-to- |
| | SPACE RESEARCH (Earth-to | space) (space to space) | space) (space-to-space) |
| | SPACE RESEARCH (Earth-to | -space) (space-to-space) | FIXED |
| | | | MOBILE 391 |
| | | | SPACE RESEARCH (Earth- |
| | | | to-space) (space-to-space) |
| | 392 | | 392 |
| 2 110 – 2 120 | FIXED | | 2 110 – 2 120 |
| | MOBILE 388A 388B | | FIXED |
| | SPACE RESEARCH (deep spa | ace) (Earth-to-space) | MOBILE 388A |
| | and the second of the second o | (===================================== | SPACE RESEARCH (deep |
| | | | space) (Earth-to-space) |
| | 388 | | 388 |
| | | | |

MHz 2 120 – 2 483.5

| | | - 2 483.5 | Column 2: | |
|------------------|------------------------------|--|-------------------------------|--|
| | | Radio Regulations - Table of Frequency Allocations | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 2 120 – 2 160 | 2 120 – 2 160 | 2 120 – 2 160 | 2 120 – 2 170 | |
| FIXED | FIXED | FIXED | FIXED | |
| MOBILE 388A 388B | MOBILE 388A 388B | MOBILE 388A 388B | MOBILE 388A | |
| | Mobileósatellite (space-to- | | | |
| | Earth) | | | |
| 388 | 388 | 388 | | |
| 2 160 – 2 170 | 2 160 – 2 170 | 2 160 – 2 170 | | |
| FIXED | FIXED | FIXED | | |
| MOBILE 388A 388B | MOBILE | MOBILE 388A 388B | | |
| | MOBILEóSATELLITE | | | |
| | (space-to-Earth) | | | |
| 388 | 388 389C 389E | 388 | 388 | |
| 2 170 – 2 200 | FIXED | | 2 170 – 2 200 | |
| | MOBILE | | FIXED | |
| | MOBILEóSATELLITE (space | -to-Earth) 351A | MOBILE | |
| | | | MOBILEóSATELLITE | |
| | | | (space-to-Earth) 351A | |
| | 388 389A 389F | | 388 389A | |
| 2 200 – 2 290 | SPACE OPERATION (space-t | o-Earth) (space-to-space) | 2 200 – 2 290 | |
| | EARTH EXPLORATION6SA | TELLITE (space-to-Earth) | SPACE OPERATION (space- | |
| | (space-to-space) | | to-Earth) (space-to-space) | |
| | FIXED | | EARTH EXPLORATION6 | |
| | MOBILE 391 | | SATELLITE (space-to- | |
| | SPACE RESEARCH (space-to | -Earth) (space-to-space) | Earth) (space-to-space) | |
| | | | | |
| | | | | |
| | | | | |
| | 392 | | to-Earth) (space-to-space) | |
| | | | 392 | |
| 2 290 – 2 300 | FIXED | | 2 290 – 2 300 | |
| | MOBILE except aeronautical r | | FIXED | |
| | SPACE RESEARCH (deep spa | ace) (space-to-Earth) | MOBILE except aeronautical | |
| | | | mobile | |
| | | | SPACE RESEARCH (deep | |
| | | | space) (space-to-Earth) | |
| 2 300 – 2 450 | 2 300 – 2 450 | | 2 300 – 2 450 | |
| FIXED | FIXED | | FIXED | |
| MOBILE 384A | MOBILE 384A | | MOBILE 384A RADIOLOCATION | |
| Amateur | RADIOLOCATION | RADIOLOCATION | | |
| Radiolocation | Amateur | | Amateur | |
| 150 282 395 | 150 282 393 394 396 | | 150 282 | |
| 2 450 – 2 483.5 | 2 450 – 2 483.5 | | 2 450 – 2 483.5 FIXED | |
| FIXED | FIXED | FIXED | | |
| MOBILE | MOBILE | | MOBILE | |
| Radiolocation | RADIOLOCATION | RADIOLOCATION | | |
| 150 | 150 | 150 | | |

MHz 2 483.5 – 2 655

| | 2 483.5 – 2 655 | | | | |
|----------------------------|---------------------------------------|----------------------------|-------------------------------|--|--|
| | adio Regulations - Table of Frequency | | Column 2: | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 2 483.5 – 2 500 | 2 483.5 – 2 500 | 2 483.5 – 2 500 | 2 483.5 – 2 500 | | |
| FIXED | FIXED | FIXED | FIXED | | |
| MOBILE | MOBILE | MOBILE | MOBILE | | |
| MOBILEÓSATELLITE (space- | MOBILEóSATELLITE | MOBILEÓSATELLITE (space- | MOBILEóSATELLITE | | |
| to-Earth) 351A | (space-to-Earth) 351A | to-Earth) 351A | (space-to-Earth) 351A | | |
| RADIODETERMINATIONÓ | RADIOLOCATION | RADIOLOCATION | RADIOLOCATION | | |
| SATELLITE (space-to- | RADIODETERMINATIONÓ | RADIODETERMINATIONÓ | RADIODETERMINATIONÓ | | |
| Earth) 398 | SATELLITE (space-to- | SATELLITE (space-to- | SATELLITE (space-to- | | |
| Radiolocation 398A | Earth) 398 | Earth) 398 | Earth) 398 | | |
| 150 399 401 402 | 150 402 | 150 401 402 | 150 401 402 | | |
| 2 500 - 2 520 | 2 500 - 2 520 | 2 500 - 2 520 | 2 500 – 2 520 | | |
| FIXED 410 | FIXED 410 | FIXED 410 | FIXED 410 | | |
| MOBILE except aeronautical | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | | |
| mobile 384A | to-Earth) 415 | to-Earth) 415 | to-Earth) 415 | | |
| | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical | | |
| | mobile 384A | mobile 384A | mobile 384A | | |
| | | MOBILEóSATELLITE | MOBILEóSATELLITE | | |
| | | (space-to-Earth) 351A | (space-to-Earth) 351A | | |
| | | 407 414 414A | 407 414 414A | | |
| 412 | 404 | 404 415A | | | |
| 2 520 - 2 655 | 2 520 – 2 655 | 2 520 – 2 535 | 2 520 – 2 535 | | |
| FIXED 410 | FIXED 410 | FIXED 410 | FIXED 410 | | |
| MOBILE except aeronautical | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | | |
| mobile 384A | to-Earth) 415 | to-Earth) 415 | to-Earth) 415 | | |
| BROADCASTINGó | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical | | |
| SATELLITE 413 416 | mobile 384A | mobile 384A | mobile 384A | | |
| | BROADCASTINGó | BROADCASTINGó | BROADCASTING6 | | |
| | SATELLITE 413 416 | SATELLITE 413 416 | SATELLITE 413 416 | | |
| | | 403 414A 415A | 403 | | |
| | | 2 535 – 2 655 | 2 535 – 2 655 | | |
| | | FIXED 410 | FIXED 410 | | |
| | | MOBILE except aeronautical | MOBILE except aeronautical | | |
| | | mobile 384A | mobile 384A | | |
| | | BROADCASTINGó | BROADCASTING6 | | |
| | | SATELLITE 413 416 | SATELLITE 413 416 | | |
| 339 412 417C 417D 418B | | 339 417A 417B 417C 417D | 339 417C 417D 418B 418C | | |
| 418C | 339 417C 417D 418B 418C | 418 418A 418B 418C | | | |

MHz 2 655 – 3 100

| 2 655 – 3 100 | | | | | |
|-----------------------------|--|-----------------------------|-------------------------------|--|--|
| | Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations | | |
| 2 655 – 2 670 | 2 655 – 2 670 | 2 655 – 2 670 | 2 655 – 2 670 | | |
| FIXED 410 | FIXED 410 | FIXED 410 | FIXED 410 | | |
| MOBILE except aeronautical | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | | |
| mobile 384A | to-space) (space-to-Earth) | to-space) 415 | to-space) 415 | | |
| BROADCASTINGó | 415 | MOBILE except aeronautical | MOBILE except aeronautical | | |
| SATELLITE 208B 413 | MOBILE except aeronautical | mobile 384A | mobile 384A | | |
| 416 | mobile 384A | BROADCASTINGó | BROADCASTINGó | | |
| Earth explorationósatellite | BROADCASTINGó | SATELLITE 413 416 | SATELLITE 413 416 | | |
| (passive) | SATELLITE 413 416 | Earth explorationósatellite | Earth explorationósatellite | | |
| Radio astronomy | Earth explorationósatellite | (passive) | (passive) | | |
| Space research (passive) | (passive) | Radio astronomy | Radio astronomy | | |
| | Radio astronomy | Space research (passive) | Space research (passive) | | |
| | Space research (passive) | | | | |
| 149 412 | 149 208B | 149 208B 420 | 149 208B 420 | | |
| 2 670 - 2 690 | 2 670 - 2 690 | 2 670 - 2 690 | 2 670 – 2 690 | | |
| FIXED 410 | FIXED 410 | FIXED 410 | FIXED 410 | | |
| MOBILE except aeronautical | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | | |
| mobile 384A | to-space) (space-to-Earth) | to-space) 415 | to-space) 415 | | |
| Earth explorationósatellite | 208B 415 | MOBILE except aeronautical | MOBILE except aeronautical | | |
| (passive) | MOBILE except aeronautical | mobile 384A | mobile 384A | | |
| Radio astronomy | mobile 384A | MOBILEóSATELLITE | MOBILEóSATELLITE | | |
| Space research (passive) | Earth explorationósatellite | (Earth-to-space) 351A | (Earth-to-space) 351A | | |
| | (passive) | 419 | 419 | | |
| | Radio astronomy | Earth explorationósatellite | Earth explorationósatellite | | |
| | Space research (passive) | (passive) | (passive) | | |
| | | Radio astronomy | Radio astronomy | | |
| | | Space research (passive) | Space research (passive) | | |
| 149 412 | 149 | 149 | 149 | | |
| 2 690 – 2 700 | EARTH EXPLORATION6SA | ΓELLITE (passive) | 2 690 – 2 700 | | |
| | RADIO ASTRONOMY | | EARTH EXPLORATION6 | | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) | | |
| | | | RADIO ASTRONOMY | | |
| | | | SPACE RESEARCH | | |
| | | | (passive) | | |
| | 340 422 | | 340 | | |
| 2 700 – 2 900 | AERONAUTICAL RADIONA | VIGATION 337 | 2 700 – 2 900 | | |
| | Radiolocation | | AERONAUTICAL | | |
| | | | RADIONAVIGATION | | |
| | | | 337 | | |
| | 100 101 | | Radiolocation | | |
| | 423 424 | | 423 | | |
| 2 900 – 3 100 | RADIOLOCATION 424A | | 2 900 – 3 100 | | |
| | RADIONAVIGATION 426 | | RADIOLOCATION 424A | | |
| | 105 105 | | RADIONAVIGATION 426 | | |
| | 425 427 | | 425 427 | | |

MHz 3 100 – 4 400

| | | -4400 | |
|-------------------------|-----------------------------------|----------------------------|-------------------------------|
| Column 1: ITU I | Radio Regulations - Table of Freq | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 3 100 – 3 300 | RADIOLOCATION | | 3 100 – 3 300 |
| | Earth explorationósatellite (act | ive) | RADIOLOCATION |
| | Space research (active) | • | Earth explorationósatellite |
| | • | | (active) |
| | | | Space research (active) |
| | 149 428 | | 149 |
| 3 300 – 3 400 | 3 300 – 3 400 | 3 300 – 3 400 | 3 300 – 3 400 |
| RADIOLOCATION | RADIOLOCATION | RADIOLOCATION | RADIOLOCATION |
| | Amateur | Amateur | Amateur |
| | Fixed | | |
| | Mobile | | |
| 149 429 430 | 149 | 149 429 | 149 |
| 3 400 – 3 600 | 3 400 – 3 500 | 3 400 – 3 500 | 3 400 – 3 500 |
| FIXED | FIXED | FIXED | FIXED |
| FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| to-Earth) | to-Earth) | to-Earth) | to-Earth) |
| Mobile 430A | Amateur | Amateur | Amateur |
| Radiolocation | Mobile 431A | Mobile 432B | Mobile 432B |
| 144010104411011 | Radiolocation 433 | Radiolocation 433 | Radiolocation 433 |
| | 282 | 282 432 432A | 282 |
| | 3 500 – 3 700 | 3 500 – 3 600 | 3 500 – 3 600 |
| | FIXED | FIXED | FIXED |
| | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| | to-Earth) | to-Earth) | to-Earth) |
| | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical |
| | mobile | mobile 433A | mobile 433A |
| 431 | Radiolocation 433 | Radiolocation 433 | Radiolocation 433 |
| 3 600 – 4 200 | | 3 600 – 3 700 | 3 600 – 3 700 |
| FIXED | | FIXED | FIXED |
| FIXEDóSATELLITE (space- | | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| to-Earth) | | to-Earth) | to-Earth) |
| Mobile | | MOBILE except aeronautical | MOBILE except aeronautical |
| | | mobile | mobile |
| | | Radiolocation | Radiolocation |
| | | 435 | |
| | 3 700 – 4 200 | | 3 700 – 4 200 |
| | FIXED | | FIXED |
| | FIXEDóSATELLITE (spa | ace-to-Earth) | FIXEDóSATELLITE (space- |
| | MOBILE except aeronaut | | to-Earth) |
| | 1 | | MOBILE except aeronautical |
| | | | mobile |
| 4 200 – 4 400 | AERONAUTICAL RADIONA | VIGATION 438 | 4 200 – 4 400 |
| | | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | | | 438 |
| | 439 440 | | 440 |
| | | | |

MHz 4 400 – 5 030

| G-1 1 | 4 400 – 5 | | Column 2 |
|---------------|--|--------------------------------------|---|
| | ITU Radio Regulations - Table of Frequen | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations 4 400 – 4 500 |
| 4 400 – 4 500 | FIXED MOBILE 440A | | |
| | MOBILE 440A | | FIXED MOBILE 440A |
| 4 500 – 4 800 | FIXED | | 4 500 – 4 800 |
| 4 300 – 4 600 | | FIXEDóSATELLITE (space-to-Earth) 441 | |
| | MOBILE 440A | mui) 441 | FIXED FIXEDóSATELLITE (space- |
| | | | to-Earth) 441 |
| | | | MOBILE 440A |
| 4 800 – 4 990 | FIXED | | 4 800 – 4 990 |
| | MOBILE 440A 442 | | FIXED |
| | Radio astronomy | | MOBILE 440A 442 |
| | | | AUS101A |
| | | | Radio astronomy |
| | | | |
| | | | |
| | | | |
| | 149 339 443 | | 149 339 443 |
| | 147 337 443 | | 147 337 443 |
| 4 990 – 5 000 | FIXED | | 4 990 – 5 000 |
| | MOBILE except aeronautical mob | oile | FIXED |
| | RADIO ASTRONOMY | MOBILE except aeronautical | |
| | Space research (passive) | | mobile |
| | | | RADIO ASTRONOMY |
| | 4.40 | | Space research (passive) |
| 7.000 7.010 | 149 | TELLITE (D) 442 A A | 149 |
| 5 000 – 5 010 | AERONAUTICAL MOBILEÓSA | , , | 5 000 - 5 010 |
| | AERONAUTICAL RADIONAVI RADIONAVIGATION6SATELL | | AERONAUTICAL MOBILEÓSATELLITE |
| | RADIONA VIOA HONOSA TELL | TTE (Earth-to-space) | (R) 443AA |
| | | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | | | RADIONAVIGATIONÓ |
| | | | SATELLITE (Earth-to- |
| | | | space) |
| 5 010 - 5 030 | AERONAUTICAL MOBILEÓSA | TELLITE (R) 443AA | 5 010 - 5 030 |
| | AERONAUTICAL RADIONAVI | | AERONAUTICAL |
| | RADIONAVIGATION óSATELL | ITE (space-to-Earth) (space- | MOBILEóSATELLITE |
| | to-space) 328B 443B | | (R) 443AA |
| | | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | | | RADIONAVIGATION6 |
| | | | SATELLITE (space-to- |
| | | | Earth) (space-to-space) 328B 443B |
| | | | 320D 443D |

MHz 5 030 - 5 350

| Column 1. | S 030 – 5 ITU Radio Regulations - Table of Frequen | | Column 2: | | |
|---------------|---|---|---|--|--|
| Region 1 | | Region 2 Region 3 | | | |
| 5 030 – 5 091 | AERONAUTICAL MOBILE (R) | <u> </u> | Kiribati Table of Allocations 5 030 – 5 091 | | |
| 3 030 - 3 071 | AERONAUTICAL MOBILE (R) AERONAUTICAL MOBILE (SA) | | AERONAUTICAL MOBILE | | |
| | | AERONAUTICAL RADIONAVIGATION | | | |
| | TIEROTATO FIETE RADIOTATA | 0/111011 | (R) 443C AERONAUTICAL | | |
| | | | MOBILEÓSATELLITE | | |
| | | | (R) 443D | | |
| | | | AERONAUTICAL | | |
| | | | RADIONAVIGATION | | |
| | 444 | | 444 | | |
| 5 091 - 5 150 | AERONAUTICAL MOBILE 444 | B | 5 091 - 5 150 | | |
| | AERONAUTICAL MOBILEÓSAT | TELLITE (R) 443AA | AERONAUTICAL | | |
| | AERONAUTICAL RADIONAVI | GATION | MOBILEÓSATELLITE | | |
| | | | (R) 443AA | | |
| | | | AERONAUTICAL | | |
| | | | RADIONAVIGATION | | |
| | | | AERONAUTICAL MOBILE | | |
| | | | 444B | | |
| | 444 444A | 444 444A | | | |
| 5 150 - 5 250 | AERONAUTICAL RADIONAVI | | 5 150 - 5 250 | | |
| | | FIXEDóSATELLITE (Earth-to-space) 447A | | | |
| | MOBILE except aeronautical mob | MOBILE except aeronautical mobile 446A 446B | | | |
| | | | FIXEDóSATELLITE (Earth- | | |
| | | | to-space) 447A | | |
| | | | MOBILE except aeronautical | | |
| | | | mobile 446A 446B | | |
| | 446 446C 447 447B 447C | | 446 447B 447C | | |
| 5 250 - 5 255 | EARTH EXPLORATION6SATEI | LLITE (active) | 5 250 - 5 255 | | |
| | RADIOLOCATION | | EARTH EXPLORATION6 | | |
| | SPACE RESEARCH 447D | | SATELLITE (active) RADIOLOCATION | | |
| | MOBILE except aeronautical mob | MOBILE except aeronautical mobile 446A 447F | | | |
| | | | SPACE RESEARCH 447D | | |
| | | | MOBILE except aeronautical | | |
| | | | mobile 446A 447F | | |
| | 447E 448 448A | | 447E 448A | | |
| 5 255 - 5 350 | EARTH EXPLORATION6SATEI | LLITE (active) | 5 255 – 5 350 | | |
| | RADIOLOCATION | | EARTH EXPLORATION6 | | |
| | SPACE RESEARCH (active) | " 4464 44 | SATELLITE (active) | | |
| | MOBILE except aeronautical mob | ile 446A 447F | RADIOLOCATION | | |
| | | | SPACE RESEARCH (active) | | |
| | | | MOBILE except aeronautical | | |
| | | | mobile 446A 447F | | |
| | 447E 448 448A | | 447E 448A | | |

MHz 5 350 - 5 725

| Column 1: ITI | Radio Regulations - Table of Frequency | ency Allocations | Column 2: |
|---------------|---|-------------------------------|---|
| Region 1 | Region 2 | Kiribati Table of Allocations | |
| 5 350 – 5 460 | EARTH EXPLORATION6SAT SPACE RESEARCH (active) 4 AERONAUTICAL RADIONA RADIOLOCATION 448D | 148C | 5 350 – 5 460 EARTH EXPLORATION6 SATELLITE (active) 448B SPACE RESEARCH (active) 448C AERONAUTICAL RADIONAVIGATION |
| 5 460 - 5 470 | RADIONAVIGATION 449 EARTH EXPLORATION6SAT SPACE RESEARCH (active) RADIOLOCATION 448D | TELLITE (active) | 449 RADIOLOCATION 448D 5 460 – 5 470 RADIONAVIGATION 449 EARTH EXPLORATION6 SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 448D |
| | 448B | | 448B |
| 5 470 - 5 570 | MARITIME RADIONAVIGATION MOBILE except aeronautical management of the EARTH EXPLORATION OF SPACE RESEARCH (active) RADIOLOCATION 450B | nobile 446A 450A | 5 470 – 5 570 MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 446A 450A EARTH EXPLORATION6 SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 450B |
| 5 570 - 5 650 | 448B 450 451 MARITIME RADIONAVIGAT MOBILE except aeronautical m RADIOLOCATION 450B 450 451 452 | | 448B 5 570 – 5 650 MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 446A 450A RADIOLOCATION 450B 452 |
| 5 650 - 5 725 | RADIOLOCATION MOBILE except aeronautical m Amateur Space research (deep space) 282 451 453 454 455 | nobile 446A 450A | 5 650 – 5 725 RADIOLOCATION MOBILE except aeronautical mobile 446A 450A Amateur Space research (deep space) 282 |

MHz 5 725 – 7 250

| | | - 7 250 | |
|------------------------------|--|---------------------------------------|-------------------------------|
| | Radio Regulations - Table of Frequency | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 5 725 - 5 830 | 5 725 – 5 830 | | 5 725 - 5 830 |
| FIXEDóSATELLITE (Earth- | RADIOLOCATION | RADIOLOCATION | |
| to-space) | Amateur | | Amateur |
| RADIOLOCATION | | | |
| Amateur | | | |
| 150 451 453 455 456 | 150 453 455 | | 150 |
| 5 830 - 5 850 | 5 830 - 5 850 | | 5 830 - 5 850 |
| FIXEDóSATELLITE (Earth- | RADIOLOCATION | | RADIOLOCATION |
| to-space) | Amateur | | Amateur |
| RADIOLOCATION | Amateurósatellite (space-t | o-Earth) | Amateurósatellite (space-to- |
| Amateur | | , | Earth) |
| Amateurósatellite (space-to- | | | , |
| Earth) | | | |
| 150 451 453 455 456 | 150 453 455 | | 150 |
| 5 850 – 5 925 | 5 850 – 5 925 | 5 850 – 5 925 | 5 850 – 5 925 |
| FIXED | FIXED | FIXED | FIXED |
| FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- |
| to-space) | to-space) | to-space) | to-space) |
| MOBILE | MOBILE | MOBILE | MOBILE |
| | Amateur | Radiolocation | Radiolocation |
| | Radiolocation | | |
| 150 | 150 | 150 | 150 |
| 5 925 – 6 700 | FIXED 457 | | 5 925 – 6 700 |
| | FIXEDóSATELLITE (Earth-to | -space) 457A 457B | FIXED |
| | MOBILE 457C | · · · · · · · · · · · · · · · · · · · | FIXEDóSATELLITE (Earth- |
| | | | to-space) 457A |
| | | | MOBILE |
| | 149 440 458 | | 149 440 458 |
| 6 700 – 7 075 | FIXED | | 6 700 – 7 075 |
| | FIXEDóSATELLITE (Earth-to | -space) (space-to-Earth) 441 | FIXED |
| | MOBILE | space, (space of _a.a.) | FIXEDóSATELLITE (Earth- |
| | | | to-space) (space-to-Earth) |
| | | | 441 |
| | | | MOBILE |
| | 458 458A 458B 458C | | 458 458A 458B 458C |
| 7 075 – 7 145 | FIXED | | 7 075 – 7 145 |
| | MOBILE | | FIXED |
| | | | MOBILE |
| | 458 459 | | 458 |
| 7 145 – 7 235 | FIXED | | 7 145 – 7 235 |
| | MOBILE | | FIXED |
| | SPACE RESEARCH (Earth-to- | -space) 460 | MOBILE |
| | ` | - / | SPACE RESEARCH (Earth- |
| | | | to-space) 460 |
| | 458 459 | | 458 |
| 7 235 – 7 250 | FIXED | | 7 235 – 7 250 |
| | MOBILE | | FIXED |
| | | | MOBILE |
| | 458 | | 458 |
| | | | |

MHz 7 250 – 8 025

| Column 1. | ITU Radio Regulations - Table of Frequ | | Column 2: | |
|------------------------|---|-----------------------------------|--------------------------------------|--|
| | | | | |
| Region 1 7 250 – 7 300 | Region 2 | Region 3 | Kiribati Table of Allocations | |
| 7 250 – 7 300 | FIXED | E outle) | 7 250 – 7 300 FIXED | |
| | FIXEDÓSATELLITE (space-to- MOBILE | Earm) | FIXED FIXED SATELLITE (space- | |
| | MOBILE | MOBILE | | |
| | | | to-Earth) MOBILE | |
| | 461 | | 461 | |
| 7 300 – 7 450 | 461 FIXED | | 7 300 – 7 450 | |
| 7 300 – 7 450 | | Eouth) | FIXED | |
| | FIXEDóSATELLITE (space-to- MOBILE except aeronautical mo | | FIXED FIXED (space- | |
| | MOBILE except aeronauticar in | oone | to-Earth) | |
| | | | MOBILE except aeronautical | |
| | | | mobile mobile | |
| | 461 | | 461 | |
| 7.450. 7.550 | FIXED | | 7 450 – 7 550 | |
| 7 450 – 7 550 | | Earth) | FIXED | |
| | FIXEDÓSATELLITE (space-to- | | | |
| | METEOROLOGICALÓSATELI | | FIXEDóSATELLITE (space- | |
| | MOBILE except aeronautical me | obile | to-Earth) | |
| | | | METEOROLOGICALÓ | |
| | | | SATELLITE (space-to- Earth) | |
| | | | MOBILE except aeronautical | |
| | | | mobile | |
| | 461.4 | | 461A | |
| 7 550 – 7 750 | 461A FIXED | | 7 550 – 7 750 | |
| 7 550 - 7 750 | | Earth) | FIXED | |
| | | FIXEDóSATELLITE (space-to-Earth) | | |
| | MOBILE except aeronauticar in | MOBILE except aeronautical mobile | | |
| | | | to-Earth) MOBILE except aeronautical | |
| | | | mobile | |
| 7 750 – 7 900 | FIXED | | 7 750 – 7 900 | |
| 7 730 - 7 300 | METEOROLOGICALóSATELI | ITE (space to Earth) 461B | FIXED | |
| | MOBILE except aeronautical mo | | METEOROLOGICALó | |
| | WOBILE except defonduted in | oone | SATELLITE (space-to- | |
| | | | Earth) 461B | |
| | | | MOBILE except aeronautical | |
| | | | mobile | |
| 7 900 – 8 025 | FIXED | | 7 900 – 8 025 | |
| 7 700 - 0 023 | FIXED FIXEDóSATELLITE (Earth-to- | snace) | FIXED | |
| | MOBILE | space) | FIXED FIXED (Earth- | |
| | MODILE | | to-space) | |
| | | | MOBILE | |
| | 461 | | 461 | |
| | 401 | | 401 | |

MHz 8 025 – 8 650

| Column 1: | TTU Radio Regulations - Table of Freque | | Column 2: |
|---------------|---|-------------------------|---|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 8 025 – 8 175 | EARTH EXPLORATION6SATE FIXED FIXED6SATELLITE (Earth-to-s MOBILE 463 | ELLITE (space-to-Earth) | 8 025 – 8 175 EARTH EXPLORATION6 SATELLITE (space-to-Earth) FIXED FIXED6SATELLITE (Earth-to-space) MOBILE 463 |
| | 462A | | 462A |
| 8 175 – 8 215 | EARTH EXPLORATION6SATE FIXED FIXED6SATELLITE (Earth-to-s METEOROLOGICAL6SATELL MOBILE 463 | pace) | 8 175 – 8 215 EARTH EXPLORATION SATELLITE (space-to-Earth) FIXED FIXEDÓSATELLITE (Earth-to-space) METEOROLOGICALÓ SATELLITE (Earth-to-space) MOBILE 463 |
| | 462A | | 462A |
| 8 215 – 8 400 | EARTH EXPLORATION6SATE FIXED FIXED6SATELLITE (Earth-to-s MOBILE 463 | | 8 215 – 8 400 EARTH EXPLORATION6 SATELLITE (space-to-Earth) FIXED FIXED6SATELLITE (Earth-to-space) MOBILE 463 |
| | 462A | | 462A |
| 8 400 – 8 500 | FIXED MOBILE except aeronautical mo SPACE RESEARCH (space-to-E | | 8 400 – 8 500 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space- to-Earth) 465 |
| 8 500 – 8 550 | RADIOLOCATION 468 469 | | 8 500 – 8 550 RADIOLOCATION |
| 8 550 - 8 650 | EARTH EXPLORATION6SATE RADIOLOCATION SPACE RESEARCH (active) | ELLITE (active) | 8 550 – 8 650 RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATIONÓ SATELLITE (active) |
| | 468 469 469A | | 469A |

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MHz 8 650 – 9 800

| Column 1: 1 | TTU Radio Regulations - Table of Frequen | | Column 2: |
|---------------|--|----------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 8 650 – 8 750 | RADIOLOCATION | Region 3 | 8 650 – 8 750 |
| 0 030 0 730 | 468 469 | | RADIOLOCATION |
| 8 750 - 8 850 | RADIOLOCATION | | 8 750 – 8 850 |
| 0 750 0 050 | AERONAUTICAL RADIONAVI | IGATION 470 | RADIOLOCATION |
| | | 10111011 170 | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | 471 | | 470 |
| 8 850 - 9 000 | RADIOLOCATION | | 8 850 - 9 000 |
| | MARITIME RADIONAVIGATION | ON 472 | RADIOLOCATION |
| | | | MARITIME |
| | | | RADIONAVIGATION |
| | 473 | | 472 |
| 9 000 – 9 200 | AERONAUTICAL RADIONAVI | IGATION 337 | 9 000 – 9 200 |
| | RADIOLOCATION | | AERONAUTICAL |
| | | | RADIONAVIGATION |
| | | | 337 |
| | | | RADIOLOCATION |
| | 471 473A | | 473A |
| 9 200 – 9 300 | RADIOLOCATION | | 9 200 – 9 300 |
| | MARITIME RADIONAVIGATION | ON 472 | RADIOLOCATION |
| | | | MARITIME |
| | | | RADIONAVIGATION |
| | | | 472 |
| | 473 474 | | 474 |
| 9 300 – 9 500 | RADIONAVIGATION | * * ***** | 9 300 – 9 500 |
| | EARTH EXPLORATION ÓSATE | LLITE (active) | RADIONAVIGATION |
| | SPACE RESEARCH (active) | | EARTH EXPLORATION6 |
| | RADIOLOCATION | | SATELLITE (active) |
| | | | SPACE RESEARCH (active) |
| | | | RADIOLOCATION |
| | 427 474 475 475A 475D 476A | | 427 474 475 475A 475B |
| 9 500 – 9 800 | 427 474 475 475A 475B 476A | | 476A 9 500 – 9 800 |
| 7 300 - 7 800 | EARTH EXPLORATION6SATE RADIOLOCATION | LLITE (active) | EARTH EXPLORATION6 |
| | RADIOLOCATION RADIONAVIGATION | | SATELLITE (active) |
| | SPACE RESEARCH (active) | | RADIOLOCATION |
| | 51 ACE RESEARCH (active) | | RADIOLOCATION |
| | | | SPACE RESEARCH (active) |
| | 476A | | 476A |
| | 4/UA | | 4/0A |

GHz 9.8 – 10.68

| Column 1.1 | | 7.8 - 10.08 | Column 2. |
|---------------|--------------------------------------|----------------------|-------------------------------|
| | TU Radio Regulations - Table of | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 9.8 – 9.9 | Earth explorationósatellite (active) | | 9.8 – 9.9 |
| | | | RADIOLOCATION |
| | Space research (active) | | Earth explorationósatellite |
| | Fixed | | (active) |
| | | | Space research (active) |
| | 455 450 450 A 450D | | Fixed |
| 0.0 10 | 477 478 478A 478B | | 478A 478B |
| 9.9 – 10 | RADIOLOCATION | | 9.9 – 10 |
| | Fixed | | RADIOLOCATION |
| | 455 450 450 | | Fixed |
| 10 10 15 | 477 478 479 | 1.0.10.15 | 479 |
| 10 – 10.45 | 10 – 10.45 | 10 – 10.45 | 10 – 10.45 |
| FIXED | RADIOLOCATION | FIXED | FIXED |
| MOBILE | Amateur | MOBILE | MOBILE |
| RADIOLOCATION | | RADIOLOCATION | RADIOLOCATION |
| Amateur | | Amateur | Amateur |
| 479 | 479 480 | 479 | 479 |
| 10.45 – 10.5 | RADIOLOCATION | | 10.45 – 10.5 |
| | Amateur | | RADIOLOCATION |
| | Amateurósatellite | | Amateur |
| | 481 | | Amateurósatellite |
| 10.5 – 10.55 | 10.5 – 10.55 | | 10.5 – 10.55 |
| FIXED | FIXED | | FIXED |
| MOBILE | MOBILE | | MOBILE RADIOLOCATION |
| Radiolocation | RADIOLOCATION | | |
| 10.55 – 10.6 | FIXED | | 10.55 – 10.6 |
| | MOBILE except aeronaution | cal mobile | FIXED |
| | Radiolocation | | MOBILE except aeronautical |
| | | | mobile |
| | | | Radiolocation |
| 10.6 – 10.68 | EARTH EXPLORATION | SSATELLITE (passive) | 10.6 – 10.68 |
| | FIXED | | EARTH EXPLORATION6 |
| | MOBILE except aeronaution | cal mobile | SATELLITE (passive) |
| | RADIO ASTRONOMY | | FIXED |
| | SPACE RESEARCH (pass | ive) | MOBILE except aeronautical |
| | Radiolocation | | mobile |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | | | Radiolocation |
| | 149 482 482A | | 149 482 482A |

GHz 10.68 – 12.75

| Column 1: ITU Radio Regulations - Table of Frequency Allocations Column 2: | | | |
|--|----------------------------|--|--|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 10.68 – 10.7 | EARTH EXPLORATION6SAT | | 10.68 – 10.7 |
| 10.00 – 10.7 | RADIO ASTRONOMY | TELETTE (passive) | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | SFACE RESEARCH (passive) | | RADIO ASTRONOMY |
| | | | |
| | | | SPACE RESEARCH (passive) |
| | 340 483 | | 340 |
| 10.7 – 11.7 | 10.7 – 11.7 | | 10.7 – 11.7 |
| FIXED | FIXED | | FIXED |
| FIXEDÓSATELLITE (space- | FIXED FIXED (spa | ice to Earth) 441 4844 | FIXEDÓSATELLITE (space- |
| to-Earth) 441 484A | MOBILE except aeronauti | | to-Earth) 441 484A |
| (Earth-to-space) 484 | WOBILE except aeronauti | icai moone | MOBILE except aeronautical |
| MOBILE except aeronautical | | | mobile |
| mobile | | | mobile |
| 11.7 – 12.5 | 11.7 – 12.1 | 11.7 – 12.2 | 11.7 – 12.2 |
| FIXED | FIXED 486 | FIXED | FIXED |
| MOBILE except aeronautical | FIXEDóSATELLITE (space- | MOBILE except aeronautical | MOBILE except aeronautical |
| mobile | to-Earth) 484A 488 | mobile | mobile |
| BROADCASTING | Mobile except aeronautical | BROADCASTING | BROADCASTING |
| BROADCASTINGó | mobile | BROADCASTINGó | BROADCASTINGó |
| SATELLITE 492 | 485 | SATELLITE 492 | SATELLITE 492 |
| | 12.1 – 12.2 | | |
| | FIXEDóSATELLITE (space- | | |
| | to-Earth) 484A 488 | | |
| | 485 489 | 487 487A | 487 487A |
| | 12.2 – 12.7 | 12.2 – 12.5 | 12.2 – 12.5 |
| | FIXED | FIXED | FIXED |
| | MOBILE except aeronautical | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| | mobile | to-Earth) | to-Earth) |
| | BROADCASTING | MOBILE except aeronautical | MOBILE except aeronautical |
| | BROADCASTINGó | mobile | mobile |
| | SATELLITE 492 | BROADCASTING | BROADCASTING |
| | | | |
| 197 197 1 | | 4944 497 | 49.4.4.497 |
| 487 487A | - | 484A 487 | 484A 487 |
| 12.5 – 12.75 | | 12.5 – 12.75 | 12.5 – 12.75 |
| FIXEDÓSATELLITE (space- | | FIXED | FIXED |
| to-Earth) 484A (Earth-to- | 487A 488 490 | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| space) | 12.7 – 12.75 | to-Earth) 484A MOBILE except aeronautical | to-Earth) 484A MOBILE except aeronautical |
| | FIXED | mobile except aeronautical | mobile mobile |
| | FIXEDÓSATELLITE (Earth- | BROADCASTINGó | BROADCASTINGó |
| | to-space) | SATELLITE 493 | SATELLITE 493 |
| | MOBILE except aeronautical | DATELLITE 473 | DATELLITE 493 |
| 494 495 496 | mobile | | |
| マノマ マノン マ ノし | moone | 1 | 1 |

GHz 12.75 – 14.3

| Column 2: Kiribati Table of Allocations 12.75 – 13.25 FIXED |
|---|
| 12.75 – 13.25 |
| |
| |
| FIXEDóSATELLITE (Earth- |
| to-space) 441 |
| MOBILE |
| Space research (deep space) |
| (space-to-Earth) |
| 13.25 – 13.4 |
| AERONAUTICAL |
| RADIONAVIGATION 497 |
| EARTH EXPLORATION6 |
| SATELLITE (active) SPACE RESEARCH (active) |
| SFACE RESEARCH (active) |
| 498A |
| 13.4 – 13.75 |
| EARTH EXPLORATION6 |
| SATELLITE (active) |
| space) RADIOLOCATION |
| SPACE RESEARCH 501A Standard frequency and time |
| signalósatellite (Earth-to- |
| signatosatemite (Earth-to- |
| 501A 501B |
| 13.75 – 14 |
| RADIOLOCATION |
| FIXEDóSATELLITE (Earth- |
| space) to-space) 484A |
| Earth explorationósatellite |
| Standard frequency and time |
| signalósatellite (Earth-to- |
| space) |
| Space research |
| 502 503 |
| 34A 506 14 – 14.3 |
| FIXEDóSATELLITE (Earth-to-space) 457A 484A 506 |
| RADIONAVIGATION 504 |
| Mobileósatellite (Earth-to- |
| space) 506A |
| Space research |
| |
| |
| |
| 504A |
| 3 |

76

GHz 14.3 – 14.8

| Column 1: ITU F | Column 2: | | |
|-----------------------------|----------------------------------|-----------------------------|-----------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 14.3 – 14.4 | 14.3 – 14.4 | 14.3 – 14.4 | 14.3 – 14.4 |
| FIXED | FIXEDóSATELLITE (Earth- | FIXED | FIXED |
| FIXEDóSATELLITE (Earth- | to-space) 457A 484A 506 | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- |
| to-space) 457A 457B | 506B | to-space) 457A 484A 506 | to-space) 457A 484A 506 |
| 484A 506 506B | Mobileósatellite (Earth-to- | 506B | MOBILE except aeronautical |
| MOBILE except aeronautical | space) 506A | MOBILE except aeronautical | mobile |
| mobile | Radionavigationósatellite | mobile | Mobileósatellite (Earth-to- |
| Mobileósatellite (Earth-to- | | Mobileósatellite (Earth-to- | space) 506A |
| space) 504B 506A 509A | | space) 504B 506A 509A | Radionavigationósatellite |
| Radionavigationósatellite | | Radionavigationósatellite | |
| 504A | 504A | 504A | 504A |
| 14.4 – 14.47 | FIXED | | 14.4 – 14.47 |
| | FIXEDóSATELLITE (Earth-to- | -space) 457A 457B 484A 506 | FIXED |
| | 506B | | FIXEDóSATELLITE (Earth- |
| | MOBILE except aeronautical m | | to-space) 457A 484A 506 |
| | Mobileósatellite (Earth-to-space | | MOBILE except aeronautical |
| | Space research (space-to-Earth) | | mobile |
| | | | Mobileósatellite (Earth-to- |
| | | | space) 506A |
| | | | Space research (space-to- |
| | 5044 | | Earth) |
| 44.5 | 504A | | 504A |
| 14.47 – 14.5 | FIXED | \ 1551 155D 1011 505 | 14.47 – 14.5 |
| | | -space) 457A 457B 484A 506 | FIXED |
| | 506B | 1.3 | FIXEDóSATELLITE (Earth- |
| | MOBILE except aeronautical m | | to-space) 457A 484A 506 |
| | Mobileósatellite (Earth-to-space | e) 504B 506A 509A | Mobile except aeronautical mobile |
| | Radio astronomy | | |
| | | | Mobileósatellite (Earth-to- |
| | | | space) 506A Radio astronomy |
| | 149 504A | | 149 504A |
| 14.5 – 14.8 | FIXED | | 14.5 – 14.8 |
| 14.3 - 14.0 | FIXEDÓSATELLITE (Earth-to- | space) 510 | FIXED |
| | MOBILE | -грасс) 310 | FIXEDÓSATELLITE (Earth- |
| | Space research | | to-space) 510 |
| | Space research | | MOBILE |
| | | | Space research |
| | | | Space research |

GHz 14.8 – 17.2

| Column 1 | 14.8 – 17 ITU Radio Regulations - Table of Frequency | | Column 2: | |
|---------------|---|-------------------|--|--|
| Region 1 | | Region 2 Region 3 | | |
| 14.8 – 15.35 | FIXED | Region 3 | Kiribati Table of Allocations 14.8 – 15.35 | |
| 14.6 – 13.33 | MOBILE | | FIXED | |
| | Space research | | MOBILE | |
| | Space research | | Space research | |
| | 339 | | 339 | |
| 15.35 – 15.4 | EARTH EXPLORATION6SATEL | LITE (passive) | 15.35 – 15.4 | |
| 10.00 | RADIO ASTRONOMY | ETTE (passive) | EARTH EXPLORATION6 | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) | |
| | (4) | | RADIO ASTRONOMY | |
| | | | SPACE RESEARCH | |
| | | | (passive) | |
| | 340 511 | | 340 | |
| 15.4 – 15.43 | RADIOLOCATION 511E 511F | | 15.4 – 15.43 | |
| | AERONAUTICAL RADIONAVIO | GATION | RADIOLOCATION 511E | |
| | | | 511F | |
| | | | AERONAUTICAL | |
| | | | RADIONAVIGATION | |
| | 511D | | 511D | |
| 15.43 – 15.63 | FIXEDóSATELLITE (Earth-to-spa | ce) 511A | 15.43 – 15.63 | |
| | RADIOLOCATION 511E 511F | | FIXEDóSATELLITE (Earth- | |
| | AERONAUTICAL RADIONAVIO | GATION | to-space) 511A | |
| | | | RADIOLOCATION 511E | |
| | | | 511F | |
| | | | AERONAUTICAL | |
| | | | RADIONAVIGATION | |
| | 511C | | 511C | |
| 15.63 – 15.7 | RADIOLOCATION 511E 511F | TA PRONT | 15.63 – 15.7 | |
| | AERONAUTICAL RADIONAVIO | JATION | RADIOLOCATION 511E | |
| | | | 511F | |
| | | | AERONAUTICAL | |
| | 511D | | RADIONAVIGATION | |
| 15.7 – 16.6 | 511D | | 511D 15.7 – 16.6 | |
| 15./-10.0 | RADIOLOCATION 512 513 | | RADIOLOCATION | |
| 16.6 – 17.1 | RADIOLOCATION | | 16.6 – 17.1 | |
| 10.0 - 17.1 | Space research (deep space) (Earth- | to enace) | RADIOLOCATION | |
| | Space research (deep space) (Earth- | -w-space) | Space research (deep space) | |
| | 512 513 | | (Earth-to-space) | |
| 17.1 – 17.2 | RADIOLOCATION | | 17.1 – 17.2 | |
| 17.1 - 17.4 | 512 513 | | RADIOLOCATION | |
| | 314 313 | | KADIOLOCATION | |

GHz 17.2 – 18.6

| 17.2 – 18.6 | | | |
|--|--|--|---|
| | Radio Regulations - Table of Frequency Allocations | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 17.2 – 17.3 | EARTH EXPLORATION6SAT RADIOLOCATION SPACE RESEARCH (active) 512 513 513A | FELLITE (active) | 17.2 – 17.3 EARTH EXPLORATION6 SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 513A |
| 17.3 – 17.7 | 17.3 – 17.7 | 17.3 – 17.7 | 17.3 – 17.7 |
| FIXEDóSATELLITE (Earth- to-space) 516 (space-to- Earth) 516A 516B Radiolocation | FIXEDóSATELLITE (Earth- to-space) 516 BROADCASTINGó SATELLITE Radiolocation 514 515 | FIXEDóSATELLITE (Earth- to-space) 516 Radiolocation | FIXEDóSATELLITE (Earth- to-space) 516 Radiolocation |
| 17.7 – 18.1 | 17.7 – 17.8 | 17.7 – 18.1 | 17.7 – 18.1 |
| FIXED FIXED6SATELLITE (space- to-Earth) 484A (Earth-to- space) 516 MOBILE | FIXED FIXED6SATELLITE (space- to-Earth) 517 (Earth-to- space) 516 BROADCASTING6 SATELLITE Mobile 515 17.8 – 18.1 FIXED FIXED6SATELLITE (space- to-Earth) 484A (Earth-to- space) 516 MOBILE 519 | 17.7 – 18.1 FIXED FIXED6SATELLITE (spaceto-Earth) 484A (Earth-to-space) 516 MOBILE | FIXED FIXEDóSATELLITE (space- to-Earth) 484A (Earth-to- space) 516 MOBILE |
| 18.1 – 18.4 | FIXED FIXEDóSATELLITE (space-to space) 520 MOBILE 519 521 | -Earth) 484A 516B (Earth-to- | 18.1 – 18.4 FIXED FIXED6SATELLITE (space- to-Earth) 484A 516B (Earth-to-space) 520 MOBILE 519 |
| 18.4 – 18.6 | FIXED FIXEDóSATELLITE (space-to MOBILE | -Earth) 484A 516B | 18.4 – 18.6 FIXED FIXEDóSATELLITE (space- to-Earth) 484A 516B MOBILE |

GHz 18.6 – 21.2

| - | 18.6 - | | _ |
|-----------------------------|--|-------------------------------|---|
| Column 1: ITU I | Radio Regulations - Table of Frequency | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 18.6 – 18.8 | 18.6 – 18.8 | 18.6 – 18.8 | 18.6 – 18.8 |
| EARTH EXPLORATION6 | EARTH EXPLORATION6 | EARTH EXPLORATION6 | EARTH EXPLORATION6 |
| SATELLITE (passive) | SATELLITE (passive) | SATELLITE (passive) | SATELLITE (passive) |
| FIXED | FIXED | FIXED | FIXED |
| FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| to-Earth) 522B | to-Earth) 516B 522B | to-Earth) 522B | to-Earth) 522B |
| MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical | MOBILE except aeronautical |
| mobile | mobile | mobile | mobile |
| Space research (passive) | SPACE RESEARCH (passive) | Space research (passive) | Space research (passive) |
| 522A 522C | 522A | 522A | 522A |
| 18.8 – 19.3 | FIXED | | 18.8 – 19.3 |
| | FIXEDóSATELLITE (space-to | -Earth) 516B 523A | FIXED |
| | MOBILE | | FIXEDóSATELLITE (space- |
| | | | to-Earth) 516B 523A |
| | | | MOBILE |
| 19.3 – 19.7 | FIXED | | 19.3 – 19.7 |
| | FIXEDóSATELLITE (space-to | -Earth) (Earth-to-space) 523B | FIXED |
| | 523C 523D 523E | | FIXEDóSATELLITE (space- |
| | MOBILE | | to-Earth) (Earth-to-space) |
| | | | 523B 523C 523D 523E |
| | | 1 | MOBILE |
| 19.7 – 20.1 | 19.7 – 20.1 | 19.7 – 20.1 | 19.7 – 20.1 |
| FIXEDÓSATELLITE (space- | FIXEDÓSATELLITE (space- | FIXEDÓSATELLITE (space- | FIXEDÓSATELLITE (space- |
| to-Earth) 484A 516B | to-Earth) 484A 516B | to-Earth) 484A 516B | to-Earth) 484A 516B |
| Mobileósatellite (space-to- | MOBILEÓSATELLITE | Mobileósatellite (space-to- | Mobileósatellite (space-to- |
| Earth) | (space-to-Earth) | Earth) | Earth) |
| 504 | 524 525 526 527 520 520 | 504 | |
| 524 | 524 525 526 527 528 529 | 524 E (1) 4844 516B | 20.1 20.2 |
| 20.1 – 20.2 | FIXEDÓSATELLITE (space-to | | 20.1 – 20.2 |
| | MOBILEóSATELLITE (space- | -to-Eartn) | FIXEDÓSATELLITE (space- |
| | | | to-Earth) 484A 516B MOBILEóSATELLITE |
| | | | |
| | | | (space-to-Earth) |
| | 524 525 526 527 528 | | 525 526 527 528 |
| 20.2 – 21.2 | FIXEDóSATELLITE (space-to | | 20.2 – 21.2 |
| | MOBILEóSATELLITE (space- | | FIXEDóSATELLITE (space- |
| | Standard frequency and time sign | gnal (space-to-Earth) | to-Earth) |
| | | | MOBILEóSATELLITE |
| | | | (space-to-Earth) |
| | | | Standard frequency and time |
| | 524 | | signal (space-to-Earth) |

GHz 21.2–23.55

| C 1 1 ITH | | 23.55 | C 1 2 |
|---------------------|--|-------------------------|-------------------------------|
| | Radio Regulations - Table of Frequency | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 21.2 – 21.4 | EARTH EXPLORATION6SAT | TELLITE (passive) | 21.2 – 21.4 |
| | FIXED | | EARTH EXPLORATION6 |
| | MOBILE | | SATELLITE (passive) FIXED |
| | SPACE RESEARCH (passive) | | MOBILE |
| | | | SPACE RESEARCH |
| | | | |
| 21.4 – 22 | 21.4 – 22 | 21.4 – 22 | (passive) 21.4 – 22 |
| FIXED | FIXED | FIXED | FIXED |
| MOBILE | MOBILE | MOBILE | MOBILE |
| BROADCASTINGó | MOBILE | BROADCASTINGó | BROADCASTINGÓ |
| SATELLITE 208B | | SATELLITE 208B | SATELLITE 208B |
| 530A 530B 530C 530D | 530A 530C | 530A 530B 530C 530D 531 | |
| 22 – 22.21 | FIXED | 330A 330B 330C 330D 331 | 22 – 22.21 |
| 22 – 22.21 | MOBILE except aeronautical m | ochilo | 22 - 22.21 FIXED |
| | MOBILE except defonautical in | loone | MOBILE except aeronautical |
| | | | mobile mobile |
| | 149 | | 149 |
| 22.21 – 22.5 | EARTH EXPLORATION6SAT | FELLITE (passiva) | 22.21 – 22.5 |
| 22.21 – 22.3 | FIXED | TELETTE (passive) | EARTH EXPLORATION6 |
| | MOBILE except aeronautical m | oobile | SATELLITE (passive) |
| | RADIO ASTRONOMY | loone | FIXED |
| | SPACE RESEARCH (passive) | | MOBILE except aeronautical |
| | SI ACE RESEARCH (passive) | | mobile |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 149 532 | | 149 532 |
| 22.5 – 22.55 | FIXED | | 22.5 – 22.55 |
| | MOBILE | | FIXED |
| | 1,102122 | | MOBILE |
| 22.55 – 23.15 | FIXED | | 22.55 – 23.15 |
| | INTERÓSATELLITE 338A | | FIXED |
| | MOBILE | | INTERÓSATELLITE 338A |
| | SPACE RESEARCH (Earth-to- | space) 532A | MOBILE |
| | | | SPACE RESEARCH (Earth- |
| | | | to-space) 532A |
| | 149 | | 149 |
| 23.15 – 23.55 | FIXED | | 22.15 – 23.55 |
| | INTER6SATELLITE 338A | | FIXED |
| | MOBILE | | INTER6SATELLITE 338A |
| | | | MOBILE |

GHz 23.55 – 25.25

| Column 1. ITI I | Radio Regulations - Table of Freq | uency Allocations | Column 2: |
|-------------------------|---|-------------------------|---|
| | | | |
| Region 1 23.55 – 23.6 | Region 2 FIXED | Region 3 | Kiribati Table of Allocations |
| 23.55 – 23.6 | | | 23.55 – 23.6 |
| | MOBILE | | FIXED |
| 23.6 – 24 | EADTH EVDLOD ATION (CA) | PELLUPE (manifest) | MOBILE 22.6 24 |
| 23.6 – 24 | EARTH EXPLORATION ÓSA | TELLITE (passive) | 23.6 – 24 |
| | RADIO ASTRONOMY SPACE RESEARCH (passive) | | EARTH EXPLORATIONÓ SATELLITE (passive) |
| | SPACE RESEARCH (passive) | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 | | (passive) 340 |
| 24 – 24.05 | AMATEUR | | 24 – 24.05 |
| 24 – 24.03 | AMATEUR 6SATELLITE | | AMATEUR |
| | AWATEOROSATELETTE | | AMATEUR ÓS ATELLITE |
| | 150 | | 150 |
| 24.05 – 24.25 | RADIOLOCATION | | 24.05 – 24.25 |
| 21.00 21.20 | Amateur | | Amateur |
| | Earth explorationósatellite (acti | (ve) | Earth explorationósatellite |
| | (| | (active) |
| | 150 | | 150 |
| 24.25 – 24.45 | 24.25 – 24.45 | 24.25 – 24.45 | 24.25 – 24.45 |
| FIXED | RADIONAVIGATION | RADIONAVIGATION | RADIONAVIGATION |
| | | FIXED | FIXED |
| | | MOBILE | MOBILE |
| 24.45 – 24.65 | 24.45 – 24.65 | 24.45 – 24.65 | 24.45 – 24.65 |
| FIXED | INTERÓSATELLITE | FIXED | FIXED |
| INTERÓSATELLITE | RADIONAVIGATION | INTERÓSATELLITE | INTERóSATELLITE |
| | | MOBILE | MOBILE |
| | | RADIONAVIGATION | RADIONAVIGATION |
| | 533 | 533 | 533 |
| 24.65 – 24.75 | 24.65 – 24.75 | 24.65 – 24.75 | 24.65 – 24.75 |
| FIXED | INTERÓSATELLITE | FIXED | FIXED |
| FIXEDóSATELLITE (Earth- | RADIOLOCATION6 | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- |
| to-space) 532B | SATELLITE (Earth-to- | to-space) 532B | to-space) 532B |
| INTERÓSATELLITE | space) | INTERÓSATELLITE | INTERÓSATELLITE |
| | | MOBILE | MOBILE |
| 2475 2525 | 24.75 25.25 | 533 | 533 |
| 24.75 – 25.25 | 24.75 – 25.25 EIVED 65 A TELL LITE (Forth | 24.75 – 25.25 EIVED | 24.75 – 25.25 |
| FIXED | FIXEDóSATELLITE (Earth- | FIXED | FIXED |
| FIXEDóSATELLITE (Earth- | to-space) 535 | FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Earth- |
| to-space) 532B | | to-space) 535 | to-space) 535 |
| | | MOBILE | MOBILE |

GHz 25.25 – 29.1

| Column 1: ITII | Radio Regulations - Table of Frequency | | Column 2: |
|---------------------|--|---------------------------------|-------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 25.25 – 25.5 | FIXED | Region 5 | 25.25 – 25.5 |
| 23.23 – 23.3 | INTERÓSATELLITE 536 | | FIXED |
| | MOBILE 530 | | INTERÓSATELLITE 536 |
| | Standard frequency and time sign | onalósatellite (Farth-to-space) | MOBILE 330 |
| | Standard frequency and time sig | gnaiosatemie (Lartii-to-space) | Standard frequency and time |
| | | | signalósatellite (Earth-to- |
| | | | space) |
| 25.5 – 27 | EARTH EXPLORATION6SAT | FELLITE (space-to-Earth) | 25.5 – 27 |
| 20.0 27 | 536B | EEEITE (space to Earth) | EARTH EXPLORATION6 |
| | FIXED | | SATELLITE (space-to- |
| | INTERÓSATELLITE 536 | | Earth) |
| | MOBILE | | FIXED |
| | SPACE RESEARCH (space-to- | -Earth) 536C | INTER6SATELLITE 536 |
| | Standard frequency and time sig | | MOBILE |
| | 1 3 | ` ' | SPACE RESEARCH (space- |
| | | | to-Earth) |
| | | | Standard frequency and time |
| | | | signalósatellite (Earth-to- |
| | | | space) |
| | 536A | | 536A |
| 27 – 27.5 | 27 – 27.5 | | 27 – 27.5 |
| FIXED | FIXED | | FIXED |
| INTERÓSATELLITE 536 | FIXEDóSATELLITE (Ear | rth-to-space) | FIXEDóSATELLITE (Earth- |
| MOBILE | INTERÓSATELLITE 536 | 5 537 | to-space) |
| | MOBILE | | INTERÓSATELLITE 536 |
| | | | 537 |
| | | | MOBILE |
| 27.5 – 28.5 | FIXED 537A | | 27.5 – 28.5 |
| | FIXEDóSATELLITE (Earth-to- | -space) 484A 516B 539 | FIXED |
| | MOBILE | | FIXEDóSATELLITE (Earth- |
| | | | to-space) 484A 516B 539 |
| | | | MOBILE |
| | 538 540 | | 538 540 |
| 28.5 – 29.1 | FIXED | | 28.5 – 29.1 |
| 20.3 – 27.1 | | -space) 484A 516B 523A 539 | FIXED |
| | MOBILE | -эрисс) тота 5100 525А 559 | FIXEDÓSATELLITE (Earth- |
| | Earth explorationósatellite (Earth | th-to-space) 541 | to-space) 484A 516B |
| | Zardi explorationosatemic (Lar | ar to space) 5-11 | 523A 539 |
| | | | MOBILE |
| | | | Earth explorationósatellite |
| | | | (Earth-to-space) 541 |
| | 540 | | 540 |
| | 5.10 | | 3.10 |

GHz 29.1 – 31.3

| G 1 4 MINUTE | 29.1 - | | |
|--|---|--|---|
| | Radio Regulations - Table of Frequency | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 29.1 – 29.5 | FIXED FIXEDÓSATELLITE (Earth-to- 535A 539 541A MOBILE Earth explorationósatellite (Earth | | 29.1 – 29.5 FIXED FIXEDóSATELLITE (Earthto-space) 516B 523C 523E 535A 539 541A MOBILE Earth explorationósatellite (Earth-to-space) 541 |
| | 540 | | 540 |
| 29.5 – 29.9 | 29.5 – 29.9 | 29.5 – 29.9 | 29.5 – 29.9 |
| FIXEDÓSATELLITE (Earth- to-space) 484A 516B 539 Earth explorationósatellite (Earth-to-space) 541 Mobileósatellite (Earth-to- space) | FIXEDÓSATELLITE (Earth- to-space) 484A 516B 539 MOBILEÓSATELLITE (Earth-to-space) Earth explorationósatellite (Earth-to-space) 541 | FIXED6SATELLITE (Earth- to-space) 484A 516B 539 Earth explorationósatellite (Earth-to-space) 541 Mobileósatellite (Earth-to- space) | FIXEDÓSATELLITE (Earth- to-space) 484A 516B 539 Earth explorationósatellite (Earth-to-space) 541 Mobileósatellite (Earth-to- space) |
| 540 540 | 505 506 507 500 540 540 | 540, 540 | 540 |
| 540 542 29.9 – 30 | 525 526 527 529 540 542 | 540 542 | 540 29.9 – 30 |
| | FIXEDóSATELLITE (Earth-to-space) 484A 516B 539 MOBILEóSATELLITE (Earth-to-space) Earth explorationósatellite (Earth-to-space) 541 543 | | FIXEDÓSATELLITE (Earth- to-space) 484A 516B 539 MOBILEÓSATELLITE (Earth-to-space) Earth explorationósatellite (Earth-to-space) 541 543 |
| | 525 526 527 538 540 542 | | 525 526 527 538 540 |
| 30 – 31 | FIXEDóSATELLITE (Earth-to-MOBILEóSATELLITE (Earth-Standard frequency and time signal for the standard frequency and the standard frequency | to-space) | 30 – 31 FIXEDÓSATELLITE (Earthto-space) 338A MOBILEÓSATELLITE (Earth-to-space) Standard frequency and time signalósatellite (space-to-Earth) |
| 31 – 31.3 | FIXED 338A 543A | | 31 – 31.3 |
| | MOBILE Standard frequency and time sig Space research 544 545 | gnalósatellite (space-to-Earth) | FIXED 338A MOBILE Standard frequency and time signalósatellite (space-to- Earth) Space research 544 |
| | 149 | | 149 |

GHz 31.3 – 34.2

| Column 1: ITII I | Radio Regulations - Table of Freq | uency Allocations | Column 2: |
|----------------------------|--|----------------------------|-------------------------------|
| | | Region 3 | Kiribati Table of Allocations |
| Region 1 31.3 – 31.5 | Region 2 | | |
| 31.3 – 31.5 | EARTH EXPLORATIONÓSATELLITE (passive) RADIO ASTRONOMY | | 31.3 – 31.5 |
| | | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 | | 340 |
| 31.5 – 31.8 | 31.5 – 31.8 | 31.5 – 31.8 | 31.5 – 31.8 |
| EARTH EXPLORATION6 | EARTH EXPLORATION6 | EARTH EXPLORATION6 | EARTH EXPLORATION6 |
| SATELLITE (passive) | SATELLITE (passive) | SATELLITE (passive) | SATELLITE (passive) |
| RADIO ASTRONOMY | RADIO ASTRONOMY | RADIO ASTRONOMY | RADIO ASTRONOMY |
| SPACE RESEARCH | SPACE RESEARCH | SPACE RESEARCH | SPACE RESEARCH |
| (passive) | (passive) | (passive) | (passive) |
| Fixed | (passive) | Fixed | Fixed |
| Mobile except aeronautical | | Mobile except aeronautical | Mobile except aeronautical |
| mobile | | mobile | mobile |
| 149 546 | 340 | 149 | 149 |
| 31.8 – 32 | FIXED 547A | 149 | 31.8 – 32 |
| 31.8 – 32 | | | FIXED 547A |
| | RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) | | |
| | SPACE RESEARCH (deep spa | ice) (space-to-Earth) | RADIONAVIGATION |
| | | | SPACE RESEARCH (deep |
| | 5.47 5.47D 5.40 | | space) (space-to-Earth) |
| 22 22 2 | 547 547B 548 | | 547 548 |
| 32 – 32.3 | FIXED 547A | | 32 – 32.3 |
| | RADIONAVIGATION | | FIXED 547A |
| | SPACE RESEARCH (deep spa | ice) (space-to-Earth) | RADIONAVIGATION |
| | | | SPACE RESEARCH (deep |
| | | | space) (space-to-Earth) |
| | 547 547C 548 | | 547 548 |
| 32.3 – 33 | FIXED 547A | | 32.3 – 33 |
| | INTERóSATELLITE | | FIXED 547A |
| | RADIONAVIGATION | | INTERÓSATELLITE |
| | | | RADIONAVIGATION |
| | 547 547D 548 | | 547 548 |
| 33 – 33.4 | FIXED 547A | | 33 – 33.4 |
| | RADIONAVIGATION | | FIXED 547A |
| | | | RADIONAVIGATION |
| | 547 547E | | 547 |
| 33.4 – 34.2 | RADIOLOCATION | | 33.4 – 34.2 |
| | 549 | | RADIOLOCATION |
| | | | |

GHz 34.2 – 37.5

| Column 1: | 34.2 – 37. ITU Radio Regulations - Table of Frequence | | Column 2: |
|-------------|--|-------------------------|---------------------------------------|
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 34.2 – 34.7 | RADIOLOCATION | Kegion 5 | 34.2 – 34.7 |
| 34.2 – 34.7 | SPACE RESEARCH (deep space) (| Forth to amount | RADIOLOCATION |
| | SPACE RESEARCH (deep space) (| Earth-to-space) | SPACE RESEARCH (deep |
| | | | space) (Earth-to-space) |
| | 549 | | space) (Earth-to-space) |
| 34.7 – 35.2 | RADIOLOCATION | | 34.7 – 35.2 |
| 34.7 – 33.2 | Space research 550 | | RADIOLOCATION |
| | 549 | | Space research |
| 35.2 – 35.5 | METEOROLOGICAL AIDS | | 35.2 – 35.5 |
| 33.2 – 33.3 | RADIOLOCATION | | METEOROLOGICAL AIDS |
| | 549 | | |
| 25.5.26 | | | RADIOLOCATION |
| 35.5 – 36 | METEOROLOGICAL AIDS | | 35.5 – 36 |
| | EARTH EXPLORATION6SATELI | LITE (active) | METEOROLOGICAL AIDS |
| | RADIOLOCATION | | EARTH EXPLORATION6 SATELLITE (active) |
| | SPACE RESEARCH (active) | SPACE RESEARCH (active) | |
| | | | RADIOLOCATION |
| | -10 -10 · | | SPACE RESEARCH (active) |
| | 549 549A | | 549A |
| 36 - 37 | EARTH EXPLORATION6SATELI | LITE (passive) | 36 – 37 |
| | FIXED | | EARTH EXPLORATION6 |
| | MOBILE | | SATELLITE (passive) |
| | SPACE RESEARCH (passive) | | FIXED |
| | | | MOBILE |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 149 550A | | 149 550A |
| 37 – 37.5 | FIXED | | 37 – 37.5 |
| | MOBILE except aeronautical mobile | | FIXED |
| | SPACE RESEARCH (space-to-Eart | h) | MOBILE except aeronautical |
| | • • | | mobile |
| | | | SPACE RESEARCH (space- |
| | | | to-Earth) |
| | 547 | | 547 |

GHz 37.5 – 40.5

| C-1 1. | 3/.3 – 40.5 | | G-1 2. |
|-----------|---|-----------------|-------------------------------------|
| | ITU Radio Regulations - Table of Frequency Allo | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 37.5 – 38 | FIXED | | 37.5 – 38 |
| | FIXEDóSATELLITE (space-to-Earth) | | FIXED |
| | MOBILE except aeronautical mobile | | FIXEDÓSATELLITE (space- |
| | SPACE RESEARCH (space-to-Earth) | ` | to-Earth) |
| | Earth explorationósatellite (space-to-Earth) | | MOBILE except aeronautical |
| | | | mobile |
| | | | SPACE RESEARCH (space-to- Earth) |
| | | | Earth explorationósatellite |
| | | | (space-to-Earth) |
| | 547 | | (space-to-Earth) |
| 38 – 39.5 | FIXED | | 38 – 39.5 |
| 36 – 39.3 | FIXED FIXED (space-to-Earth) | | 56 – 59.5 FIXED |
| | MOBILE | | |
| | Earth explorationósatellite (space-to-Earth |) | FIXEDóSATELLITE (space-to-Earth) |
| | Earth explorationosatemite (space-to-Earth |) | MOBILE |
| | | | Earth explorationósatellite |
| | | | (space-to-Earth) |
| | 547 | | 547 |
| 39.5 – 40 | FIXED | | 39.5 – 40 |
| | FIXEDóSATELLITE (space-to-Earth) 51 | 6B | FIXED |
| | MOBILE | | FIXEDóSATELLITE (space- |
| | MOBILEóSATELLITE (space-to-Earth) | | to-Earth) 516B |
| | Earth explorationósatellite (space-to-Earth |) | MOBILE |
| | • | • | MOBILEóSATELLITE |
| | | | (space-to-Earth) |
| | | | Earth explorationósatellite |
| | | | (space-to-Earth) |
| | 547 | | 547 |
| 40 – 40.5 | EARTH EXPLORATION6SATELLITE (| Earth-to-space) | 40 - 40.5 |
| | FIXED | | EARTH EXPLORATION6 |
| | FIXEDóSATELLITE (space-to-Earth) 51 | 6B | SATELLITE (Earth-to- |
| | MOBILE | | space) |
| | MOBILEóSATELLITE (space-to-Earth) | | FIXED |
| | SPACE RESEARCH (Earth-to-space) | | FIXEDóSATELLITE (space- |
| | Earth explorationósatellite (space-to-Earth |) | to-Earth) 516B |
| | | | MOBILE |
| | | | MOBILEÓSATELLITE |
| | | | (space-to-Earth) |
| | | | SPACE RESEARCH (Earth- |
| | | | to-space) |
| | | | Earth explorationósatellite |
| | | | (space-to-Earth) |

GHz 40.5 – 47.5

| | | <u> </u> | |
|-------------------------|---|-------------------------|--------------------------------------|
| Column 1: ITU I | Radio Regulations - Table of Freq | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 40.5 – 41 | 40.5 – 41 | 40.5 – 41 | 40.5 – 41 |
| FIXED | FIXED | FIXED | FIXED |
| FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- | FIXEDóSATELLITE (space- |
| to-Earth) | to-Earth) 516B | to-Earth) | to-Earth) |
| BROADCASTING | BROADCASTING | BROADCASTING | BROADCASTING |
| BROADCASTINGó | BROADCASTINGó | BROADCASTINGó | BROADCASTINGó |
| SATELLITE | SATELLITE | SATELLITE | SATELLITE |
| Mobile | Mobile | Mobile | Mobile |
| | Mobileósatellite (space-to- | | |
| | Earth) | | |
| 547 | 547 | 547 | 547 |
| 41 – 42.5 | FIXED | 1 | 41 – 42.5 |
| | FIXEDóSATELLITE (space-to | -Earth) 516B | FIXED |
| | BROADCASTING | , , , | FIXEDóSATELLITE (space- |
| | BROADCASTING\(\)SATELLI | TE | to-Earth) |
| | Mobile | | BROADCASTING |
| | | | BROADCASTINGó |
| | | | SATELLITE |
| | | | Mobile |
| | 547 551F 551H 551I | | 547 551F 551H 551I |
| 42.5 – 43.5 | FIXED | | 42.5 – 43.5 |
| 12.5 | | | FIXED |
| | MOBILE except aeronautical n | | FIXEDóSATELLITE (Earth- |
| | RADIO ASTRONOMY | | to-space) 552 |
| | RADIO ASTRONOMI | | MOBILE except aeronautical |
| | | | mobile |
| | | | RADIO ASTRONOMY |
| | 149 547 | | 149 547 |
| 43.5 – 47 | MOBILE 553 | | 43.5 – 47 |
| 43.3 – 47 | MOBILE 333 MOBILE6SATELLITE | | MOBILE 553 |
| | RADIONAVIGATION | | MOBILE 333 MOBILE6SATELLITE |
| | RADIONAVIGATION RADIONAVIGATION6SATE | IIITE | RADIONAVIGATION |
| | RADIONAVIGATIONOSATE | LLITE | RADIONAVIGATION RADIONAVIGATION6 |
| | | | SATELLITE |
| | 551 | | 17 |
| 47 – 47.2 | 554 AMATEUR | | 554 47 – 47.2 |
| 4/-4/.2 | | | ·· · · · · · · · · · · · · · · · · · |
| | AMATEURóSATELLITE | | AMATEUR AMATEURóSATELLITE |
| 47.2 – 47.5 | EWED | | |
| 41.2 – 41.3 | FIXED | anaca) 552 | 47.2 – 47.5 FIXED |
| | FIXEDóSATELLITE (Earth-to | -space) 332 | |
| | MOBILE | | FIXEDóSATELLITE (Earth- |
| | | | to-space) 552 |
| | 552 A | | MOBILE |
| | 552A | | 552A |

GHz 47.5 – 51.4

| | 4/.5- | | |
|------------------------------------|------------------------------------|-----------------------------|-------------------------------|
| Column 1: ITU l | Radio Regulations - Table of Frequ | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 47.5 – 47.9 | 47.5 – 47.9 | | 47.5 – 47.9 |
| FIXED | FIXED | | FIXED |
| FIXEDóSATELLITE (Earth- | FIXEDóSATELLITE (Ear | th-to-space) 552 | FIXEDóSATELLITE (Earth- |
| to-space) 552 (space-to- | MOBILE | 1 | to-space) 552 |
| Earth) 516B 554A | | | MOBILE |
| MOBILE | | | |
| 47.9 – 48.2 | FIXED | | 47.9 – 48.2 |
| | FIXEDóSATELLITE (Earth-to | -space) 552 | FIXED |
| | MOBILE | ·F, | FIXEDóSATELLITE (Earth- |
| | 1102122 | | to-space) 552 |
| | | | MOBILE |
| | 552A | | 552A |
| 48.2 – 48.54 | 48.2 – 50.2 | | 48.2 – 50.2 |
| FIXED | FIXED | | FIXED |
| FIXEDóSATELLITE (Earth- | | rth-to-space) 338A 516B 552 | FIXEDóSATELLITE (Earth- |
| to-space) 552 (space-to- | MOBILE | til-to-space) 336A 310B 332 | to-space) 338A 552 |
| Earth) 516B 554A 555B | MOBILE | | MOBILE |
| MOBILE | | | WOBILE |
| 48.54 – 49.44 | _ | | |
| FIXED | | | |
| | | | |
| FIXEDóSATELLITE (Earth- | | | |
| to-space) 552 | | | |
| MOBILE | | | |
| 149 340 555 49.44 – 50.2 | 4 | | |
| | | | |
| FIXED | | | |
| FIXEDóSATELLITE (Earth- | | | |
| to-space) 338A 552 | | | |
| (space-to-Earth) 516B | | | |
| 554A 555B | 149 340 555 | | 149 340 555 |
| MOBILE TO A | | | |
| 50.2 – 50.4 | EARTH EXPLORATION SDAGE RESEARCH | IELLITE (passive) | 50.2 – 50.4 |
| | SPACE RESEARCH (passive) | | EARTH EXPLORATION6 |
| | | | SATELLITE (passive) |
| | | | SPACE RESEARCH |
| | 240 | | (passive) |
| 50.4.51.4 | 340 | | 340 |
| 50.4 – 51.4 | FIXED | > 220.4 | 50.4 – 51.4 |
| | FIXEDÓSATELLITE (Earth-to | -space) 338A | FIXED |
| | MOBILE | | FIXED6SATELLITE (Earth- |
| | Mobileósatellite (Earth-to-space | e) | to-space) 338A |
| | | | MOBILE |
| | | | Mobileósatellite (Earth-to- |
| | | | space) |

GHz 51.4 – 58.2

| | 51.4 – 58 | · · · · · · · · · · · · · · · · · · · | 1 |
|---------------|--|---------------------------------------|-------------------------------|
| | ITU Radio Regulations - Table of Frequence | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 51.4 - 52.6 | FIXED 338A | | 51.4 – 52.6 |
| | MOBILE | | FIXED 338A |
| | | | MOBILE |
| | 547 556 | | 547 556 |
| 52.6 - 54.25 | EARTH EXPLORATION6SATEL | LITE (passive) | 52.6 – 54.25 |
| | SPACE RESEARCH (passive) | | EARTH EXPLORATION6 |
| | | | SATELLITE (passive) |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 556 | | 340 556 |
| 54.25 – 55.78 | EARTH EXPLORATION óSATEL | LITE (passive) | 54.25 – 55.78 |
| | INTERÓSATELLITE 556A | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | INTERÓSATELLITE 556A |
| | | | SPACE RESEARCH |
| | 556B | | (passive) |
| 55.78 – 56.9 | EARTH EXPLORATION 6SATEL | LITE (passive) | 55.78 – 56.9 |
| | FIXED 557A | | EARTH EXPLORATION6 |
| | INTERÓSATELLITE 556A | | SATELLITE (passive) |
| | MOBILE 558 | | FIXED 557A |
| | SPACE RESEARCH (passive) | | INTERÓSATELLITE 556A |
| | | | MOBILE 558 |
| | | | SPACE RESEARCH |
| | 5.47. 5.57 | | (passive) |
| 5(0, 57 | 547 557 | LITE (| 547 |
| 56.9 – 57 | EARTH EXPLORATION6SATEL | LITE (passive) | 56.9 – 57 |
| | FIXED INTER6SATELLITE 558A | | EARTH EXPLORATION6 |
| | MOBILE 558 | | SATELLITE (passive) FIXED |
| | SPACE RESEARCH (passive) | | INTERÓSATELLITE 558A |
| | SPACE RESEARCH (passive) | | MOBILE 558 |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 547 557 | | 547 |
| 57 – 58.2 | EARTH EXPLORATION6SATEL | LITE (passive) | 57 – 58.2 |
| 01 30im | FIXED | LITE (pubblic) | EARTH EXPLORATION6 |
| | INTERÓSATELLITE 556A | | SATELLITE (passive) |
| | MOBILE 558 | | FIXED |
| | SPACE RESEARCH (passive) | | INTERÓSATELLITE 556A |
| | Difference (passive) | | MOBILE 558 |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 547 557 | | 547 |
| | | | |

GHz 58.2 – 71

| G.1. 1 | 58.2 – | | Column 2: |
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| | Column 1: ITU Radio Regulations - Table of Frequency Allocations | | |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 58.2 – 59 | EARTH EXPLORATION6SATE FIXED MOBILE SPACE RESEARCH (passive) | ELLITE (passive) | 58.2 – 59 EARTH EXPLORATION6 SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) |
| 59 – 59.3 | 547 556 EARTH EXPLORATION6SATE FIXED INTER6SATELLITE 556A MOBILE 558 RADIOLOCATION 559 SPACE RESEARCH (passive) | ELLITE (passive) | 547 556 59 – 59.3 EARTH EXPLORATION6 SATELLITE (passive) FIXED INTER6SATELLITE 556A MOBILE 558 RADIOLOCATION 559 SPACE RESEARCH (passive) |
| 59.3 – 64 | FIXED INTER6SATELLITE MOBILE 558 RADIOLOCATION 559 | | 59.3 – 64 FIXED INTER6SATELLITE MOBILE 558 RADIOLOCATION 559 138 |
| 64 – 65 | FIXED INTER6SATELLITE MOBILE except aeronautical mo | bile | 64 – 65 FIXED INTERÓSATELLITE MOBILE except aeronautical mobile 547 556 |
| 65 – 66 | EARTH EXPLORATION6SATE FIXED INTER6SATELLITE MOBILE except aeronautical mo SPACE RESEARCH | | 65 – 66 EARTH EXPLORATION6 SATELLITE FIXED INTER6SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 547 |
| 66 – 71 | INTERÓSATELLITE MOBILE 553 558 MOBILEÓSATELLITE RADIONAVIGATION RADIONAVIGATIONÓSATELI | LITE | 66 – 71 INTER6SATELLITE MOBILE 553 558 MOBILE6SATELLITE RADIONAVIGATION RADIONAVIGATION6 SATELLITE |
| | 554 | | 554 |

GHz 71 – 81

| | 71 – 8: | | |
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| | ITU Radio Regulations - Table of Frequen | · | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 71 – 74 | FIXED FIXEDÓSATELLITE (space-to-Ea MOBILE MOBILEÓSATELLITE (space-to- | | 71 – 74 FIXED FIXED6SATELLITE (space- to-Earth) MOBILE MOBILE6SATELLITE |
| 74 – 76 | FIXED FIXEDÓSATELLITE (space-to-Ea MOBILE BROADCASTING BROADCASTINGÓSATELLITE Space research (space-to-Earth) | arth) | (space-to-Earth) 74 – 76 FIXED FIXEDÓSATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTINGÓ SATELLITE Space research (space-to-Earth) 561 |
| 76 – 77.5 | RADIO ASTRONOMY RADIOLOCATION Amateur Amateurósatellite Space research (space-to-Earth) | | 76 – 77.5 RADIO ASTRONOMY RADIOLOCATION Amateur Amateurósatellite Space research (space-to-Earth) |
| 77.5 – 78 | AMATEUR AMATEURÓSATELLITE Radio astronomy Space research (space-to-Earth) | | 77.5 – 78 AMATEUR AMATEURÓSATELLITE Radio astronomy Space research (space-to-Earth) 149 |
| 78 – 79 | RADIOLOCATION Amateur Amateurósatellite Radio astronomy Space research (space-to-Earth) | | 78 – 79 RADIOLOCATION Amateur Amateurósatellite Radio astronomy Space research (space-to-Earth) |
| 79 – 81 | 149 560 RADIO ASTRONOMY RADIOLOCATION Amateur Amateurósatellite Space research (space-to-Earth) | | 149 560 79 – 81 RADIO ASTRONOMY RADIOLOCATION Amateur Amateurósatellite Space research (space-to-Earth) 149 |

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| | | FIXEDóSATELLITE (Earth-to-space) | |
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| | · · | to-space) | to-space) |
| | RADIO ASTRONOMY | | MOBILE |
| | Space research (space-to-Earth) | | MOBILEÓSATELLITE |
| | | | (Earth-to-space) |
| | | | RADIO ASTRONOMY |
| | | | Space research (space-to- |
| | | | Earth) |
| | 149 561A | | 149 561A |
| 84 - 86 | FIXED 338A | | 84 - 86 |
| | FIXEDóSATELLITE (Earth-to- | space) 561B | FIXED 338A |
| | MOBILE | | FIXEDóSATELLITE (Earth- |
| | RADIO ASTRONOMY | | to-space) 561B |
| | | | MOBILE |
| | | | RADIO ASTRONOMY |
| | 149 | | 149 |
| 86 - 92 | EARTH EXPLORATION6SAT | ELLITE (passive) | 86 – 92 EARTH EXPLORATION6 |
| | RADIO ASTRONOMY | RADIO ASTRONOMY | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 | | 340 |
| 92 – 94 | FIXED 338A | | 92 – 94 |
| | MOBILE | | FIXED 338A |
| | RADIO ASTRONOMY | | MOBILE |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | | | RADIOLOCATION |
| | 149 | | 149 |
| 94 – 94.1 | EARTH EXPLORATION6SAT | ELLITE (active) | 94 – 94.1 |
| | RADIOLOCATION | , , | EARTH EXPLORATION6 |
| | SPACE RESEARCH (active) | | SATELLITE (active) |
| | Radio astronomy | | RADIOLOCATION |
| | · | | SPACE RESEARCH (active) |
| | | | Radio astronomy |
| | 562 562A | | 562 562A |
| 94.1 – 95 | FIXED | | 94.1 – 95 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | | | RADIOLOCATION |
| | 149 | | 149 |
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GHz 95 – 114.25

| 0.11 | 95 – 114 | | G.I. 2 |
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| | Column 1: ITU Radio Regulations - Table of Frequency Allocations | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 95 – 100 | FIXED | | 95 – 100 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | RADIONAVIGATION | Y COVE | RADIOLOCATION RADIONAVIGATION |
| | RADIONAVIGATIONôSATELL | RADIONAVIGATION6SATELLITE | |
| | | | RADIONAVIGATION6 |
| | 140.554 | | SATELLITE |
| | 149 554 | | 149 554 |
| 100 – 102 | EARTH EXPLORATION 6SATE | LLITE (passive) | 100 – 102 |
| | RADIO ASTRONOMY | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 341 | | 340 341 |
| 102 – 105 | FIXED | | 102 – 105 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | | | RADIO ASTRONOMY |
| | 149 341 | | 149 341 |
| 105 – 109.5 | FIXED | | 105 – 109.5 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | SPACE RESEARCH (passive) 56 | 52B | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) 562B |
| | 149 341 | | 149 341 |
| 109.5 – 111.8 | EARTH EXPLORATION 6SATE | LLITE (passive) | 109.5 – 111.8 |
| | RADIO ASTRONOMY | EARTH EXPLORATION6 | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 341 | | 340 341 |
| 111.8 – 114.25 | FIXED | | 111.8 – 114.25 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | SPACE RESEARCH (passive) 56 | 52B | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) 562B |
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| SATELLITE (passive RADIO ASTRONOMY SPACE RESEARCH (passive) 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 | |
| RADIO ASTRONOMY SPACE RESEARCH (passive) 340 341 340 341 116 - 119.98 EARTH EXPLORATION (SATELLITE (passive) I16 - 119.98 EARTH EXPLORATION (SATELLITE (passive) SATELLITE (passive) INTER (SATELLITE (passive) INTER (SATELLITE (passive) SPACE RESEARCH (passive) 341 341 119.98 - 122.25 INTER (SATELLITE 562C SPACE RESEARCH (passive) SATELLITE (passive) SATELLITE (passive) SATELLITE (passive) INTER (SATELLITE (passive) SATELLITE (passive) INTER (SATELLITE 562C SPACE RESEARCH (passive) INTER (SATELLITE SATELLITE SATELLITE (passive) INTER (SATELLITE SATELLITE SATELLITE SATELLITE | |
| SPACE RESEARCH (passive) 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 340 341 3 |) |
| 340 341 341 | |
| 340 341 340 341 340 341 116 - 119.98 EARTH EXPLORATIONÓSATELLITE (passive) I16 - 119.98 EARTH EXPLORATIONÓSATELLITE 562C SPACE RESEARCH (passive) SATELLITE (passive) INTERÓSATELLITE 56 SPACE RESEARCH (passive) 341 34 | |
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| Title | |
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| SPACE RESEARCH (passive) 341 341 341 119.98 - 122.25 EARTH EXPLORATION (SATELLITE (passive) INTER (SATELLITE 562C SPACE RESEARCH (passive) SATELLITE (passive) INTER (SATELLITE 56 SPACE RESEARCH (passive) SPACE RESEARCH (passive) 138 341 138 341 132.25 - 123 INTER (SATELLITE FIXED INTER (SATELLITE FIXED FIXED FIXED INTER (SATELLITE FIXED FIXED INTER (SATELLITE FIXED FIXED INTER (SATELLITE INTER (SATELL | |
| 119.98 - 122.25 EARTH EXPLORATIONÓSATELLITE (passive) 119.98 - 122.25 INTERÓSATELLITE 562C EARTH EXPLORATIONÓSATELLITE (passive) SATELLITE (passive) INTERÓSATELLITE 563 SPACE RESEARCH (passive) INTERÓSATELLITE 563 SPACE RESEARCH (passive) 138 341 138 341 132.25 - 123 INTERÓSATELLITE INTE | |
| 341 341 341 341 | |
| INTER6SATELLITE 562C SPACE RESEARCH (passive) SATELLITE (passive) INTER6SATELLITE 56 SPACE RESEARCH (passive) 138 341 138 341 122.25 - 123 INTER6SATELLITE FIXED INTER6SATELLITE FIXED FIXED | |
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| INTER6SATELLITE 56 SPACE RESEARCH (passive) 138 341 138 341 122.25 - 123 INTER6SATELLITE FIXED FIXED FIXED 121.25 - 123 FIXED FIXED | Nó |
| SPACE RESEARCH (passive) 138 341 138 341 132.25 - 123 FIXED FIXED |) |
| 138 341 138 341 138 341 122.25 – 123 FIXED | i2C |
| 138 341 138 341 122.25 – 123 FIXED 122.25 – 123 FIXED | |
| 122.25 – 123 FIXED 122.25 – 123 INTER6SATELLITE FIXED | |
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| RADIONAVIGATIONÓSATELLITE MOBILEÓSATELLITE Radio astronomy 562D (space-to-Earth) | |
| Radio astronomy 562D (space-to-Earth) RADIONAVIGATION | |
| RADIONAVIGATION RADIONAVIGATION | |
| SATELLITE SATELLITE | |
| Radio astronomy | |
| 149 554 149 554 | |
| 130 – 134 EARTH EXPLORATIONóSATELLITE (active) 562E 130 – 134 | |
| FIXED EARTH EXPLORATION | Nó |
| INTERÓSATELLITE SATELLITE (active) | - |
| MOBILE 558 562E | |
| RADIO ASTRONOMY FIXED | |
| INTERÓSATELLITE | |
| MOBILE 558 | |
| RADIO ASTRONOMY | |
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GHz 134 – 164

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| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 134 – 136 | AMATEUR | | 134 – 136 |
| | AMATEURóSATELLITE | | AMATEUR |
| | Radio astronomy | | AMATEURóSATELLITE |
| | · | | Radio astronomy |
| 136 – 141 | RADIO ASTRONOMY | RADIO ASTRONOMY | |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | Amateur | | RADIOLOCATION |
| | Amateurósatellite | | Amateur |
| | | | Amateurósatellite |
| | 149 | | 149 |
| 141 – 148.5 | FIXED | | 141 – 148.5 |
| | MOBILE | | FIXED |
| | RADIO ASTRONOMY | | MOBILE |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | | | RADIOLOCATION |
| | 149 | | 149 |
| 148.5 – 151.5 | EARTH EXPLORATION6SATEL | LITE (passive) | 148.5 – 151.5 |
| | RADIO ASTRONOMY | (P) | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | STREE RESERVEN | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 | | 340 |
| 151.5 – 155.5 | FIXED | | 151.5 – 155.5 |
| 101.0 | MOBILE | | FIXED |
| | RADIO ASTRONOMY | MOBILE | |
| | RADIOLOCATION | | RADIO ASTRONOMY |
| | RADIOLOCATION | | RADIOLOCATION |
| | 149 | | 149 |
| 155.5 – 158.5 | EARTH EXPLORATION6SATEL | LITE (paccive) | 155.5 – 158.5 |
| 133.3 – 136.3 | FIXED | LITE (passive) | EARTH EXPLORATION6 |
| | MOBILE | | SATELLITE (passive) |
| | | | FIXED |
| | RADIO ASTRONOMY SPACE RESEARCH (passive) 562B | | MOBILE |
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| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | 1.40, 5.000, 5.000 | | (passive) 562B |
| 150 5 174 | 149 562F 562G | | 149 562F 562G |
| 158.5 – 164 | FIXED | .1.\ | 158.5 – 164 |
| | FIXEDÓSATELLITE (space-to-Ea | rth) | FIXED |
| | MOBILE | | FIXEDóSATELLITE (space- |
| | MOBILEÓSATELLITE (space-to-l | Earth) | to-Earth) |
| | | | MOBILE |
| | | | MOBILEÓSATELLITE |
| | | | (space-to-Earth) |

GHz 164 – 191.8

| | 164 – 193 | * * | T |
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| Column 1: | ITU Radio Regulations - Table of Frequen | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations 164 – 167 |
| 164 – 167 | RADIO ASTRONOMY SPACE RESEARCH (passive) | | |
| | 340 | | 340 |
| 167 – 174.5 | FIXED FIXEDÓSATELLITE (space-to-Ea INTERÓSATELLITE MOBILE 558 | rth) | 167 – 174.5 FIXED FIXED6SATELLITE (space- to-Earth) INTER6SATELLITE MOBILE 558 |
| | 149 562D | | 149 |
| 174.5 – 174.8 | FIXED INTER6SATELLITE MOBILE 558 | | 174.5 – 174.8 FIXED INTERÓSATELLITE MOBILE 558 |
| 174.8 – 182 | EARTH EXPLORATION6SATEL INTER6SATELLITE 562H SPACE RESEARCH (passive) | LLITE (passive) | 174.8 – 182 EARTH EXPLORATION6 SATELLITE (passive) INTER6SATELLITE 562H SPACE RESEARCH (passive) |
| 182 – 185 | EARTH EXPLORATIONÓSATEL RADIO ASTRONOMY SPACE RESEARCH (passive) | LITE (passive) | 182 – 185 EARTH EXPLORATION6 SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) |
| 105 100 | 340 | T TOTAL () | 340 |
| 185 – 190 | EARTH EXPLORATION6SATEL INTER6SATELLITE 562H SPACE RESEARCH (passive) | LITE (passive) | 185 – 190 EARTH EXPLORATION6 SATELLITE (passive) INTER6SATELLITE 562H SPACE RESEARCH (passive) |
| 190 – 191.8 | EARTH EXPLORATIONÓSATEL SPACE RESEARCH (passive) | LITE (passive) | 190 – 191.8 EARTH EXPLORATION6 SATELLITE (passive) SPACE RESEARCH (passive) |
| | 340 | | 340 |

GHz 191.8 – 231.5

| | 191.8 – | | |
|-------------|--|---------------------------|--|
| | 1: ITU Radio Regulations - Table of Freque | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 191.8 – 200 | FIXED | | 191.8 – 200 FIXED |
| | | INTERÓSATELLITE | |
| | | MOBILE 558 | |
| | MOBILEÓSATELLITE | MOBILEóSATELLITE | |
| | RADIONAVIGATION | RADIONAVIGATION | |
| | RADIONAVIGATION6SATEL | RADIONAVIGATION6SATELLITE | |
| | | | RADIONAVIGATIONó |
| | | | SATELLITE |
| | 149 341 554 | | 149 341 554 |
| 200 - 202 | EARTH EXPLORATIONóSATELLITE (passive) | | 200 – 202 EARTH EXPLORATION6 |
| | | RADIO ASTRONOMY | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) 340 341 563A |
| | 340 341 563A | 340 341 563A | |
| 202 - 209 | EARTH EXPLORATION6SATE | ELLITE (passive) | 202 – 209 |
| | RADIO ASTRONOMY | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 341 563A | | 340 341 563A |
| 209 – 217 | FIXED | | 209 – 217 |
| | FIXEDóSATELLITE (Earth-to-s | pace) | FIXED FIXEDóSATELLITE (Earth- |
| | | MOBILE | |
| | RADIO ASTRONOMY | | to-space) |
| | | | MOBILE |
| | | | RADIO ASTRONOMY |
| | 149 341 | | 149 341 |
| 217 – 226 | FIXED | | 217 – 226 |
| | FIXEDóSATELLITE (Earth-to-space) | | FIXED |
| | MOBILE | | FIXEDóSATELLITE (Earth- |
| | RADIO ASTRONOMY | | to-space) |
| | SPACE RESEARCH (passive) 5 | 562B | MOBILE |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | 140 241 | | (passive) 562B |
| 227 221 5 | 149 341 | | 149 341 |
| 226 – 231.5 | EARTH EXPLORATION6SATE | ELLITE (passive) | 226 – 231.5 |
| | RADIO ASTRONOMY | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | 240 | | (passive) |
| | 340 | | 340 |

98

GHz 231.5 – 252

| | 231.5 – 2 | | |
|-------------|--|----------------------|-------------------------------------|
| | ITU Radio Regulations - Table of Frequen | | Column 2: |
| Region 1 | Region 2 | Region 3 | Kiribati Table of Allocations |
| 231.5 - 232 | FIXED | | 231.5 – 232 |
| | MOBILE | | FIXED |
| | Radiolocation | | MOBILE |
| | | | Radiolocation |
| 232 - 235 | FIXED | | 232 – 235 |
| 202 200 | FIXEDóSATELLITE (space-to-Earth) | | FIXED |
| | MOBILE | | FIXEDóSATELLITE (space- |
| | Radiolocation | | to-Earth) |
| | | | MOBILE |
| | | | Radiolocation |
| 235 – 238 | EARTH EXPLORATIONóSATELLITE (passive) | | 235 – 238 |
| | FIXEDóSATELLITE (space-to-Earth) | | EARTH EXPLORATION6 |
| | SPACE RESEARCH (passive) | , | SATELLITE (passive) |
| | 4 / | | FIXEDóSATELLITE (space- |
| | | to-Earth) | |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 563A 563B | | 563A 563B |
| 238 – 240 | FIXED | | 238 – 240 |
| 200 210 | FIXED FIXED (space-to-Earth) | | FIXED |
| | MOBILE | | FIXEDóSATELLITE (space- |
| | RADIOLOCATION | | to-Earth) |
| | RADIONAVIGATION | | MOBILE |
| | RADIONAVIGATION RADIONAVIGATION6SATELLITE | | RADIOLOCATION |
| | MIDIOIWIVIO/IIIOIVOS/IILLE | IIL | RADIONAVIGATION |
| | | | RADIONAVIGATION RADIONAVIGATION6 |
| | | | SATELLITE |
| 240 – 241 | FIXED | | 240 – 241 |
| | MOBILE | | FIXED |
| | MOBILE RADIOLOCATION | | MOBILE |
| | RADIOLOCATION | RADIOLOCATION | |
| 241 249 | DADIO ACTRONOMY | | 241 – 248 |
| 241 – 248 | RADIO ASTRONOMY | | |
| | RADIOLOCATION | RADIO ASTRONOMY | |
| | Amateur Amateurósatellite | RADIOLOCATION | |
| | Amateurosatemte | Amateur | |
| | 129 140 | | Amateurósatellite |
| 249 250 | 138 149 | | 138 149 |
| 248 – 250 | AMATEUR | 248 – 250 AMATEUD | |
| | AMATEURÓSATELLITE | | AMATEUR |
| | Radio astronomy | | AMATEURÓSATELLITE |
| | 140 | | Radio astronomy |
| 250 252 | 149 | | 149 |
| 250 – 252 | EARTH EXPLORATION 6SATE | LLITE (passive) | 250 – 252 |
| | RADIO ASTRONOMY | EARTH EXPLORATION6 | |
| | SPACE RESEARCH (passive) | | SATELLITE (passive) |
| | | | RADIO ASTRONOMY |
| | | | SPACE RESEARCH |
| | | | (passive) |
| | 340 563A | | 340 563A |

GHz 252 – 420 000

| 232 120 | 7 0 0 0 | |
|--|---|--|
| Column 1: ITU Radio Regulations - Table of Frequency Allocations | | Column 2: |
| Region 2 | Region 3 | Kiribati Table of Allocations |
| FIXED | - | 252 – 265 |
| MOBILE | MOBILE | |
| MOBILEÓSATELLITE (Earth-to- | MOBILEóSATELLITE (Earth-to-space) | |
| RADIO ASTRONOMY | RADIO ASTRONOMY | |
| RADIONAVIGATION | RADIONAVIGATION | |
| RADIONAVIGATION6SATELL | RADIONAVIGATION6SATELLITE | |
| | | RADIONAVIGATION |
| | | RADIONAVIGATIONó |
| | | SATELLITE |
| 149 554 | | 149 554 |
| FIXED | | 265 – 275 |
| FIXEDóSATELLITE (Earth-to-space) | | FIXED |
| MOBILE | MOBILE | |
| RADIO ASTRONOMY | | to-space) |
| | | MOBILE |
| | | RADIO ASTRONOMY |
| 149 563A | | 149 563A |
| (Not allocated) | _ | 275 – 3 000 |
| | | (Not allocated) |
| 565 | | 565 |
| | _ | 3000 – 420 000 |
| | | (Not allocated) |
| | TTU Radio Regulations - Table of Frequence Region 2 FIXED MOBILE MOBILE MOBILE6SATELLITE (Earth-to-RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION RADIONAVIGATION6SATELL 149 554 FIXED FIXED6SATELLITE (Earth-to-specific mobile RADIO ASTRONOMY 149 563A (Not allocated) | Region 2 Region 3 FIXED MOBILE MOBILEóSATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION RADIONAVIGATIONóSATELLITE 149 554 FIXED FIXED FIXEDóSATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 149 563A (Not allocated) |

Part 3 Kiribati Footnotes

KIR1

The frequency band segments 703 to 748 MHz and 758 to 803 MHz are intended to accommodate wireless broadband services operating in accordance with the FDD arrangement of the APT 700 MHz band plan. It is also intended that these segments support three licensees each having equal bandwidths in a geographic area. The Kiribati õFrequency Allocation Plan for the 700 MHz Bandö provides details.

Part 4 International Footnotes

- Note The footnote numbers 53 to 565 contained in this Part are those listed in Article 5 of the ITU Radio Regulations, except that the ÷5.ø prefix has been removed.
- Administrations authorising the use of frequencies below 8.3 kHz shall ensure that no harmful interference is caused to services to which the bands above 8.3 kHz are allocated.
- Administrations conducting scientific research using frequencies below 8.3 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference.
- Use of the 8.3611.3 kHz frequency band by stations in the meteorological aids service is limited to passive use only. In the band 9611.3 kHz, meteorological aids stations shall not claim protection from stations of the radionavigation service submitted for notification to the Bureau prior to 1 January 2013. For sharing between stations of the meteorological aids service and stations in the radionavigation service submitted for notification after this date, the most recent version of Recommendation ITU-R RS.1881 should be applied.
- Additional allocation: In Algeria, Saudi Arabia, Egypt, the United Arab Emirates, the Russian Federation, Iraq, Lebanon, Morocco, Qatar, the Syrian Arab Republic, Sudan and Tunisia, the frequency band 8.369 kHz is also allocated to the radionavigation, fixed and mobile services on a primary basis.
- 54C Additional allocation: in China, the frequency band 8.369 kHz is also allocated to the maritime radionavigation and maritime mobile services on a primary basis.
- Additional allocation: in Armenia, Azerbaijan, Georgia, Kyrgyzstan, the Russian Federation, Tajikistan, and Turkmenistan, the band 14617 kHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- The stations of services to which the bands 14619.95 kHz and 20.05670 kHz and in Region 1 also the bands 72684 kHz and 86690 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan and

Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-12)

- The use of the bands 14619.95 kHz, 20.05670 kHz and 70690 kHz (726 84 kHz and 86690 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorised subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
- Additional allocation: in Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, the Russian Federation, Tajikistan and Turkmenistan, the band 67670 kHz is also allocated to the radionavigation service on a primary basis. (WRC-2000)
- 59 Different category of service: in Bangladesh and Pakistan, the allocation of the bands 70672 kHz and 84686 kHz to the fixed and maritime mobile services is on a primary basis (see No. 33). (WRC-2000)
- In the bands 70690 kHz (70686 kHz in Region 1) and 1106130 kHz (1126 130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
- In Region 2, the establishment and operation of stations in the maritime radionavigation service in the bands 70690 kHz and 1106130 kHz shall be subject to agreement obtained under No. 9.21 with administrations whose services, operating in accordance with the Table, may be affected. However, stations of the fixed, maritime mobile and radiolocation services shall not cause harmful interference to stations in the maritime radionavigation service established under such agreements.
- Administrations which operate stations in the radionavigation service in the band 90ó110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
- Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorised for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorised in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.

- 65 Different category of service: in Bangladesh, the allocation of the bands 1126117.6 kHz and 1266129 kHz to the fixed and maritime mobile services is on a primary basis (see No. 33). (WRC-2000)
- Different category of service: in Germany, the allocation of the band 1156 117.6 kHz to the fixed and maritime mobile services is on a primary basis (see No. 33) and to the radionavigation service on a secondary basis (see No. 32).
- 67 Additional allocation: in Mongolia, Kyrgyzstan, and Turkmenistan, the band 1306148.5 kHz is also allocated to the radionavigation service on a secondary basis. Within and between these countries this service shall have an equal right to operate. (WRC-07)
- 67A Stations in the amateur service using frequencies in the band 135.76 137.8 kHz shall not exceed a maximum radiated power of 1 W (e.i.r.p) and shall not cause harmful interference to stations of the radionavigation service operating in countries listed in No. 67. (WRC-07)
- The use of the band 135.76137.8 kHz in Algeria, Egypt, Iran (Islamic Republic of), Iraq, Lebanon, Syrian Arab Republic, Sudan, South Sudan and Tunisia is limited to the fixed and maritime mobile services. The amateur service shall not be used in the above-mentioned countries in the band 135.76 137.8 kHz, and this should be taken into account by the countries authorising such use. (WRC-12)
- 68 Alternative allocation: in Angola, Congo (Rep. of the), the Dem. Rep. of the Congo and South Africa, the band 160ó200 kHz is allocated to the fixed service on a primary basis. (WRC-12)
- 69 *Additional allocation:* in Somalia, the band 2006255 kHz is also allocated to the aeronautical radionavigation service on a primary basis.
- Alternative allocation: in Angola, Botswana, Burundi, the Central African Rep., Congo (Rep. of the), Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Oman, the Dem. Rep. of the Congo, South Africa, Swaziland, Tanzania, Chad, Zambia and Zimbabwe, the band 2006 283.5 kHz is allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)
- 71 Alternative allocation: in Tunisia, the band 2556283.5 kHz is allocated to the broadcasting service on a primary basis.
- 73 The band 2856325 kHz (283.56325 kHz in Region 1), in the maritime radionavigation service may be used to transmit supplementary navigational

information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service. (WRC-97)

- Additional Allocation: in Region 1, the frequency band 285.36285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
- Different category of service: in Armenia, Azerbaijan, Belarus, Georgia, Moldova, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan, Ukraine and the Black Sea areas of Romania, the allocation of the band 3156 325 kHz to the maritime radionavigation service is on a primary basis under the condition that in the Baltic Sea area, the assignment of frequencies in this band to new stations in the maritime or aeronautical radionavigation services shall be subject to prior consultation between the administrations concerned. (WRC-07)
- The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 4056415 kHz is allocated shall not cause harmful interference to radio direction-finding in the band 406.56413.5 kHz.
- Different category of service: in Australia, China, the French overseas communities of Region 3, Korea (Rep. of), India, Iran (Islamic Republic of), Japan, Pakistan, Papua New Guinea and Sri Lanka, the allocation of the frequency band 4156495 kHz to the aeronautical radionavigation service is on a primary basis. In Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Latvia, Uzbekistan and Kyrgyzstan, the allocation of the frequency band 4356495 kHz to the aeronautical radionavigation service is on a primary basis. Administrations in all the aforementioned countries shall take all practical steps necessary to ensure that aeronautical radionavigation stations in the frequency band 4356495 kHz do not cause interference to reception by coast stations of transmissions from ship stations on frequencies designated for ship stations on a worldwide basis (see No. 52.39). (WRC-12)
- Different category of service: in Cuba, the United States and Mexico the allocation of the band 415ó435 kHz to the aeronautical radionavigation service is on a primary basis.
- The use of the bands 4156495 kHz and 5056526.5 kHz (5056510 kHz in Region 2) by the maritime mobile service is limited to radiotelegraphy.
- When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with

the procedures of the International Maritime Organisation (IMO) (see Resolution 339 (Rev.WRC-07)). (WRC-07)

- In Region 2, the use of the band 4356495 kHz by the aeronautical radionavigation service is limited to non-directional beacons not employing voice transmission.
- The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the amateur service using frequencies in the 4726479 kHz shall not exceed 1 W. Administrations may increase this limit of e.i.r.p. to 5 W in portions of their territory which are at a distance of over 800 km from the borders of Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, Ukraine and Yemen. In this frequency band, stations on the amateur service shall not cause harmful interference to, or claim protection from, stations of the aeronautical radionavigation service.
- The use of the frequency band 4726479 kHz in Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, and Yemen is limited to the maritime mobile and aeronautical radionavigation services. The amateur service shall not be used in the above-mentioned countries in this frequency band, and this should be taken into account by the countries authorising such use.
- In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and 52. In using the band 4156495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz. In using the frequency band 4726479 kHz for the amateur service, administrations shall ensure that no harmful interference is caused to the frequency 490 kHz. (WRC-12)
- The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles **31** and **52** (WRC-07)
- In Region 2, in the band 525ó535 kHz the carrier power of broadcasting stations shall not exceed 1 kW during the day and 250 W at night.

- 87 Additional allocation: in Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, Niger and Swaziland, the band 526.56535 kHz is also allocated to the mobile service on a secondary basis. (WRC-12)
- Additional allocation: in Uzbekistan, the band 526.561 606.5 kHz is also allocated to the radionavigation service on a primary basis. Such use is subject to agreement obtained under No. **9.21** with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-97)
- 88 Additional allocation: in China, the band 526.56535 kHz is also allocated to the aeronautical radionavigation service on a secondary basis.
- In Region 2, the use of the band 1 60561 705 kHz by stations of the broadcasting service is subject to the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).

 The examination of frequency assignments to stations of the fixed and mobile services in the band 1 62561 705 kHz shall take account of the allotments appearing in the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).
- In the band 1 60561 705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.
- 91 Additional allocation: in the Philippines and Sri Lanka, the band 1 606.56 1 705 kHz is also allocated to the broadcasting service on a secondary basis. (WRC-97)
- Some countries of Region 1 use radiodetermination systems in the bands 1 606.561 625 kHz, 1 63561 800 kHz, 1 85062 160 kHz, 2 19462 300 kHz, 2 50262 850 kHz and 3 50063 800 kHz, subject to agreement obtained under No. **9.21**. The radiated mean power of these stations shall not exceed 50 W.
- 93 Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1 62561 635 kHz, 1 80061 810 kHz and 2 16062 170 kHz are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under No. 9.21. (WRC-12)
- 96 In Germany, Armenia, Austria, Azerbaijan, Belarus, Denmark, Estonia, the Russian Federation, Finland, Georgia, Hungary, Ireland, Iceland, Israel, Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway,

Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom, Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the bands 1 71561 800 kHz and 1 85062 000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W. (WRC-03)

- In Region 3, the Loran system operates either on 1 850 kHz or 1 950 kHz, the bands occupied being 1 82561 875 kHz and 1 92561 975 kHz respectively. Other services to which the band 1 80062 000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1 850 kHz or 1 950 kHz.
- Alternative allocation: in Angola, Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Egypt, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tunisia, Turkmenistan, Turkey and Ukraine, the band 1 810ó1 830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- 99 Additional allocation: in Saudi Arabia, Austria, Iraq, Libya, Uzbekistan, Slovakia, Romania, Slovenia, Chad, and Togo, the band 1 81061 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- In Region 1, the authorisation to use the band 1 81061 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. 98 and 99 to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. 98 and 99.
- 102 Alternative allocation: in Bolivia, Chile, Mexico, Paraguay, Peru and Uruguay, the band 1 85062 000 kHz is allocated to the fixed, mobile except aeronautical mobile, radiolocation and radionavigation services on a primary basis. (WRC-07)
- In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 85062 045 kHz, 2 19462 498 kHz, 2 50262 625 kHz and 2 65062 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.

- In Region 1, the use of the band 2 02562 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
- In Region 2, except in Greenland, coast stations and ship stations using radiotelephony in the band 2 06562 107 kHz shall be limited to class J3E emissions and to a peak envelope power not exceeding 1 kW. Preferably, the following carrier frequencies should be used: 2 065.0 kHz, 2 079.0 kHz, 2 082.5 kHz, 2 086.0 kHz, 2 093.0 kHz, 2 096.5 kHz, 2 100.0 kHz and 2 103.5 kHz. In Argentina and Uruguay, the carrier frequencies 2 068.5 kHz and 2 075.5 kHz are also used for this purpose, while the frequencies within the band 2 07262 075.5 kHz are used as provided in No. **52.165**.
- In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2 065 kHz and 2 107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the Bureau should be drawn to these provisions.
- 107 Additional allocation: in Saudi Arabia, Eritrea, Ethiopia, Iraq, Libya, Somalia and Swaziland, the band 2 16062 170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W. (WRC-12)
- The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.562 190.5 kHz are prescribed in Articles **31** and **52**. (WRC-07)
- The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article 31.
- The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are international distress frequencies for narrowband direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article 31.
- The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunications services, for search and rescue operations concerning

manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31.

The same applies to the frequencies $10\,003$ kHz, $14\,993$ kHz and $19\,993$ kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency. (WRC-07)

- Alternative allocation: in Denmark and Sri Lanka, the band 2 1946 2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- 113 For the conditions for the use of the bands 2 30062 495 kHz (2 498 kHz in Region 1), 3 20063 400 kHz, 4 75064 995 kHz and 5 00565 060 kHz by the broadcasting service, see Nos. 16 to 20, 21 and 23.3 to 23.10.
- Alternative allocation: in Denmark and Iraq, the band 2 50262 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article **31**, by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)
- Administrations are urged to authorise the use of the band 3 15563 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs.
 - It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
- 117 Alternative allocation: in Côte dølvoire, Denmark, Egypt, Liberia, Sri Lanka and Togo, the band 3 15563 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- Additional allocation: in the United States, Mexico, Peru and Uruguay, the band 3 23063 400 kHz is also allocated to the radiolocation service on a secondary basis. (WRC-03)
- 119 Additional allocation: in Honduras, Mexico and Peru, the band 3 5006 3 750 kHz is also allocated to the fixed and mobile services on a primary basis. (WRC-07)

- Alternative allocation: in Bolivia, Chile, Ecuador, Paraguay, Peru and Uruguay, the band 3 75064 000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 123 Additional allocation: in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 3 9006 3 950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.
- Additional allocation: in Greenland, the band 3 95064 000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.
- In Region 3, the stations of those services to which the band 3 9956 4 005 kHz is allocated may transmit standard frequency and time signals.
- The use of the band 4 00064 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. **52.220** and Appendix **17**).
- Frequencies in the bands 4 06364 123 kHz and 4 13064 438 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W, on condition that harmful interference is not caused to the maritime mobile service. In addition, in Afghanistan, Argentina, Armenia, Azerbaijan, Belarus, Botswana, Burkina Faso, the Central African Rep., China, the Russian Federation, Georgia, India, Kazakhstan, Mali, Niger, Pakistan, Kyrgyzstan, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4 06364 123 kHz, 4 13064 133 kHz and 4 40864 438 kHz, stations in the fixed service, with a mean power not exceeding 1 kW, can be operated on condition that they are situated at least 600 km from the coast and that harmful interference is not caused to the maritime mobile service. (WRC-12)
- The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles **31** and **52**. (WRC-07)
- The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques. (WRC-97)
- The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the

- international frequencies for the transmission of Maritime Safety Information (MSI) (see Appendix 17).
- 132A Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution 612 (Rev.WRC-12).
- 132B Alternative allocation: in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency band 4 43864 488 kHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis.
- Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Niger, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5 13065 250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 33). (WRC-12)
- 133A Alternative allocation: in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency bands 5 25065 275 kHz and 26 2006 26 350 kHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- The use of the bands 5 90065 950 kHz, 7 30067 350 kHz, 9 40069 500 kHz, 11 600611 650 kHz, 12 050612 100 kHz, 13 570613 600 kHz, 13 8006 13 870 kHz, 15 600615 800 kHz, 17 480617 550 kHz and 18 9006 19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution 517 (Rev.WRC-07). (WRC-07)
- 136 Additional allocation: frequencies in the band 5 90065 950 kHz may be used by stations in the following services, communicating only within the boundary of the country in which they are located: fixed service (in all three Regions), land mobile service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2 and 3), on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- On condition that harmful interference is not caused to the maritime mobile service, the bands 6 20066 213.5 kHz and 6 220.566 525 kHz may be used

exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.

138 The following bands:

6 76566 795 kHz (centre frequency 6 780 kHz),

433.056434.79 MHz (centre frequency 433.92 MHz) in Region 1 except

in the countries mentioned in No. 280,

61661.5 GHz (centre frequency 61.25 GHz), 1226123 GHz (centre frequency 122.5 GHz), and 2446246 GHz (centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorisation by the administration concerned, in agreement with other administrations whose radiocommunications services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

- 138A Until 29 March 2009, the band 6 76567 000 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. After this date, this band is allocated to the fixed and the mobile except aeronautical mobile (R) services on a primary basis. (WRC-03)
- Different category of service: until 29 March 2009, in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6 76567 000 kHz to the land mobile service is on a primary basis (see No. 33). (WRC-07)
- Additional allocation: in Angola, Iraq, Kenya, Somalia and Togo, the band 7 00067 050 kHz is also allocated to the fixed service on a primary basis. (WRC-12)
- 141 Alternative allocation: in Egypt, Eritrea, Ethiopia, Guinea, Libya, Madagascar and Niger, the band 7 00067 050 kHz is allocated to the fixed service on a primary basis. (WRC-12)
- 141A *Additional allocation:* in Uzbekistan and Kyrgyzstan, the bands 7 0006 7 100 kHz and 7 10067 200 kHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-03)
- 141B Additional allocation: after 29 March 2009, in Algeria, Saudi Arabia, Australia, Bahrain, Botswana, Brunei Darussalam, China, Comoros, Korea (Rep. of), Diego Garcia, Djibouti, Egypt, United Arab Emirates, Eritrea,

Indonesia, Iran (Islamic Republic of), Japan, Jordan, Kuwait, Libya, Morocco, Mauritania, Niger, New Zealand, Oman, Papua New Guinea, Qatar, the Syrian Arab Republic, Singapore, Sudan, South Sudan, Tunisia, Viet Nam and Yemen, the band 7 10067 200 kHz is also allocated to the fixed and the mobile, except aeronautical mobile (R), services on a primary basis. (WRC-12)

- 141C In Regions 1 and 3, the band 7 10067 200 kHz is allocated to the broadcasting service until 29 March 2009 on a primary basis. (WRC-03)
- Until 29 March 2009, the use of the band 7 10067 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. After 29 March 2009 the use of the band 7 20067 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. (WRC-03)
- Additional allocation: frequencies in the band 7 30067 350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 143A In Region 3, the band 7 35067 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-03)
- In Region 1, the band 7 35067 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, on condition that harmful interference is not caused to the broadcasting service, frequencies in the band 7 3506 7 450 kHz may be used by stations in the fixed and land mobile services communicating only within the boundary of the country in which they are located, each station using a total radiated power that shall not exceed 24 dBW. (WRC-03)

- 143C Additional allocation: after 29 March 2009 in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Iran (Islamic Republic of), Jordan, Kuwait, Libya, Morocco, Mauritania, Niger, Oman, Qatar, the Syrian Arab Republic, Sudan, South Sudan, Tunisia and Yemen, the bands 7 35067 400 kHz and 7 40067 450 kHz are also allocated to the fixed service on a primary basis. (WRC-12)
- 143D In Region 2, the band 7 35067 400 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Regulations. (WRC-03)
- Until 29 March 2009, the band 7 45068 100 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. (WRC-03)
- In Region 3, the stations of those services to which the band 7 9956 8 005 kHz is allocated may transmit standard frequency and time signals.
- The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles **31** and **52**. (WRC-07)
- 145A Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed service. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution 612 (Rev.WRC-12).
- 145B *Alternative allocation:* in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency bands 9 30569 355 kHz and 16 1006 16 200 kHz are allocated to the fixed service on a primary basis.
- Additional allocation: frequencies in the bands 9 40069 500 kHz, 11 6006 11 650 kHz, 12 050612 100 kHz, 15 600615 800 kHz, 17 480617 550 kHz and 18 900619 020 kHz may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take

account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)

- On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 77569 900 kHz, 11 650611 700 kHz and 11 975612 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.
- In making assignments to stations of other services to which the bands:

| in making assignments to stations of other services to which the bands. | | |
|---|-------------------------------------|--------------------|
| 13 360ó13 410 kHz, | 4 825ó4 835 MHz, | 92694 GHz, |
| 25 550ó25 670 kHz, | 4 950ó4 990 MHz, | 94.1ó100 GHz, |
| 37.5ó38.25 MHz, | 4 990ó5 000 MHz, | 102ó109.5 GHz, |
| 73674.6 MHz in | 6 650ó6 675.2 MHz, | 111.8ó114.25 GHz, |
| Regions 1 and 3, | 10.6ó10.68 GHz, | 128.336128.59 GHz, |
| 150.05ó153 MHz in Region 1, | 14.47ó14.5 GHz, | 129.23ó129.49 GHz, |
| 3226328.6 MHz, | 22.01622.21 GHz, | 130ó134 GHz, |
| 406.16410 MHz, | 22.21622.5 GHz, | 136ó148.5 GHz, |
| 6086614 MHz in | 22.81622.86 GHz, | 151.5ó158.5 GHz, |
| Regions 1 and 3, | 23.07623.12 GHz, | 168.59ó168.93 GHz, |
| 1 330ó1 400 MHz, | 31.2ó31.3 GHz, | 171.116171.45 GHz, |
| 1 610.6ó1 613.8 MHz, | 31.5631.8 GHz in | 172.316172.65 GHz, |
| 1 660ó1 670 MHz, | Regions 1 and 3, 36.43636.5 GHz, | 173.526173.85 GHz, |
| 1 718.8ó1 722.2 MHz, | | 195.75ó196.15 GHz, |
| 2 65562 690 MHz, | 42.5643.5 GHz, | 2096226 GHz, |
| 3 260ó3 267 MHz, | 48.94649.04 GHz, | 241ó250 GHz, |
| 3 33263 339 MHz, | 76ó86 GHz, | 252ó275 GHz |
| 3 345.863 352.5 MHz, | | |

are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. **4.5** and **4.6** and Article **29**). (WRC-07)

149A *Alternative allocation:* in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency band 13 450ó13 550 kHz is allocated to the

fixed service on a primary basis and to the mobile, except aeronautical mobile (R), service on a secondary basis.

150 The following bands:

13 553613 567 kHz (centre frequency 13 560 kHz), 26 957627 283 kHz (centre frequency 27 120 kHz), 40.66640.70 MHz (centre frequency 40.68 MHz),

9026928 MHz in Region 2 (centre frequency 915 MHz),

2 40062 500 MHz (centre frequency 2 450 MHz), 5 72565 875 MHz (centre frequency 5 800 MHz), and 24624.25 GHz (centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications. Radiocommunications services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. **15.13**.

- Additional allocation: frequencies in the bands 13 570613 600 kHz and 151 13 800613 870 kHz may be used by stations in the fixed service and in the mobile except aeronautical mobile (R) service, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- Additional allocation: in Armenia, Azerbaijan, China, Côte dolvoire, the Russian Federation, Georgia, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 14 250614 350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW. (WRC-03)
- In Region 3, the stations of those services to which the band 15 9956 16 005 kHz is allocated may transmit standard frequency and time signals.
- Additional allocation: in Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 18 068618 168 kHz is also allocated to the fixed service on a primary basis for use within their boundaries, with a peak envelope power not exceeding 1 kW. (WRC-03)
- 155 Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the band

- 21 850621 870 kHz is also allocated to the aeronautical mobile (R) service on a primary basis. (WRC-07)
- In Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the use of the band 21 850621 870 kHz by the fixed service is limited to provision of services related to aircraft flight safety. (WRC-07)
- The band 21 870621 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
- Additional allocation: in Nigeria, the band 22 720623 200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.
- The use of the band 23 200623 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.
- The use of the band 23 350624 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.
- 158 Alternative allocation: in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency band 24 450624 600 kHz is allocated to the fixed and land mobile services on a primary basis.
- 159 Alternative allocation: in Armenia, Austria, Belarus, Moldova, Uzbekistan and Kyrgyzstan, the frequency band 39639.5 MHz is allocated to the fixed and mobile services on a primary basis.
- Additional allocation: in Botswana, Burundi, Dem. Rep. of the Congo and Rwanda, the band 41644 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)
- Additional allocation: in Iran (Islamic Republic of) and Japan, the band 416 44 MHz is also allocated to the radiolocation service on a secondary basis.
- 161A Additional allocation: in Korea (Rep. of) and the United States, the frequency bands 41.015641.665 MHz and 43.35644 MHz are also allocated to the radiolocation service on a primary basis. Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution 612 (Rev.WRC-12).

- 161B Alternative allocation: in Albania, Germany, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Vatican, Croatia, Denmark, Spain, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Rep. of Macedonia, Lithuania, Luxembourg, Malta. Liechtenstein. Moldova. Monaco. Montenegro. Norway, Uzbekistan, Netherlands, Poland. Portugal. Kyrgyzstan, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Slovenia, Sweden, Switzerland, Turkey and Ukraine, the frequency band 426 42.5 MHz is allocated to the fixed and mobile services on a primary basis.
- Additional allocation: in Australia, the band 44647 MHz is also allocated to the broadcasting service on a primary basis. (WRC-12)
- Additional allocation: in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, the Russian Federation, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland the band 46ó68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-12)
- Additional allocation: in Armenia, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 47648.5 MHz and 56.5658 MHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-12)
- Additional allocation: in Albania, Algeria, Germany, Austria, Belgium, Bosnia and Herzegovina, Botswana, Bulgaria, Côte dolvoire, Denmark, Spain, Estonia, Finland, France, Gabon, Greece, Ireland, Israel, Italy, Jordan, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Montenegro, Nigeria, Norway, the Netherlands, Poland, Syrian Arab Republic, Slovakia, Czech Rep., Romania, the United Kingdom, Serbia, Slovenia, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia and Turkey, the band 47668 MHz, in South Africa the band 47650 MHz, and in Latvia the band 48.5656.5 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the band. (WRC-12)

- Additional allocation: in Angola, Cameroon, Congo (Rep. of the), Madagascar, Mozambique, Niger, Somalia, Sudan, South Sudan, Tanzania and Chad, the band 47668 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- Alternative allocation: in New Zealand, the band 50651 MHz is allocated to the fixed and mobile services on a primary basis; the band 53654 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-12)
- 167 Alternative allocation: in Bangladesh, Brunei Darussalam, India, Iran (Islamic Republic of), Pakistan, Singapore and Thailand, the band 506 54 MHz is allocated to the fixed, mobile and broadcasting services on a primary basis. (WRC-07)
- 167A *Additional allocation:* in Indonesia, the band 50654 MHz is also allocated to the fixed, mobile and broadcasting services on a primary basis. (WRC-07)
- Additional allocation: in Australia, China and the Dem. People's Rep. of Korea, the band 50654 MHz is also allocated to the broadcasting service on a primary basis.
- Alternative allocation: in Botswana, Lesotho, Malawi, Namibia, the Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Zambia and Zimbabwe, the band 50654 MHz is allocated to the amateur service on a primary basis. In Senegal, the band 50651 MHz is allocated to the amateur service on a primary basis. (WRC-12)
- 170 Additional allocation: in New Zealand, the band 51653 MHz is also allocated to the fixed and mobile services on a primary basis.
- Additional allocation: in Botswana, Lesotho, Malawi, Mali, Namibia, Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Zambia and Zimbabwe, the band 54668 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- Different category of service: in the French Overseas Departments and Communities in Region 2, Guyana, Jamaica and Mexico, the allocation of the band 54668 MHz to the fixed and mobile services is on a primary basis (see No. 33).
- 173 Different category of service: in the French Overseas Departments and Communities in Region 2, Guyana, Jamaica and Mexico, the allocation of the band 68672 MHz to the fixed and mobile services is on a primary basis (see No. 33).

- Alternative allocation: in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the bands 68673 MHz and 766 87.5 MHz are allocated to the broadcasting service on a primary basis. In Latvia and Lithuania, the bands 68673 MHz and 76687.5 MHz are allocated to the broadcasting and mobile, except aeronautical mobile, services on a primary basis. The services to which these bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned. (WRC-07)
- Additional allocation: in Australia, China, Korea (Rep. of), the Philippines, the Dem. People Rep. of Korea and Samoa, the band 68674 MHz is also allocated to the broadcasting service on a primary basis. (WRC-07)
- 177 Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 73674 MHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
- Additional allocation: in Colombia, Cuba, El Salvador, Guatemala, Guyana, Honduras and Nicaragua, the band 73674.6 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)
- Additional allocation: in Armenia, Azerbaijan, Belarus, China, the Russian Federation, Georgia, Kazakhstan, Lithuania, Mongolia, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 74.6674.8 MHz and 75.26 75.4 MHz are also allocated to the aeronautical radionavigation service, on a primary basis, for ground-based transmitters only. (WRC-12)
- The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons.
 - Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.
- Additional allocation: in Egypt, Israel and the Syrian Arab Republic, the band 74.8675.2 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation

- service by any administration which may be identified in the application of the procedure invoked under No. 9.21. (WRC-03)
- Additional allocation: in Western Samoa, the band 75.4687 MHz is also allocated to the broadcasting service on a primary basis.
- Additional allocation: in China, Korea (Rep. of), Japan, the Philippines and the Dem. People's Rep. of Korea, the band 76687 MHz is also allocated to the broadcasting service on a primary basis.
- Different category of service: in the United States, the French Overseas Departments and Communities in Region 2, Guyana, Jamaica, Mexico and Paraguay, the allocation of the band 76ó88 MHz to the fixed and mobile services is on a primary basis (see No. 33).
- 187 Alternative allocation: in Albania, the band 81687.5 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions contained in the Final Acts of the Special Regional Conference (Geneva, 1960).
- Additional allocation: in Australia, the band 85ó87 MHz is also allocated to the broadcasting service on a primary basis. The introduction of the broadcasting service in Australia is subject to special agreements between the administrations concerned.
- 190 Additional allocation: in Monaco, the band 87.5688 MHz is also allocated to the land mobile service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-97)
- 192 Additional allocation: in China and Korea (Rep. of), the band 100ó108 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-97)
- 194 Additional allocation: in Azerbaijan, Kyrgyzstan, Somalia, and Turkmenistan, the band 1046108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis. (WRC-07)
- Additional allocation: in the Syrian Arab Republic, the band 1086 111.975 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedures invoked under No. 9.21. (WRC-12)

- 197A Additional allocation: the band 1086117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognised international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC-07). The use of the band 1086112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air navigation functions in accordance with recognised international aeronautical standards. (WRC-07)
- In the band 117.9756137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service. (WRC-07)
- Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Latvia, Moldova, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the band 1326136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-12)
- Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Bulgaria, the United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic Republic of), Jordan, Latvia, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the band 1366137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-12)
- Different category of service: in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Kuwait, Montenegro, Oman, Pakistan, the Philippines, Qatar, Serbia, Singapore, Thailand and Yemen, the band 137ó138 MHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis (see No. 33). (WRC-07)

- Different category of service: in Israel and Jordan, the allocation of the band 1376138 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 33).
- Different category of service: in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt, Finland, France, Georgia, Greece, Kazakhstan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Syrian Arab Republic, Slovakia, the Czech Rep., Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 137ó138 MHz to the aeronautical mobile (OR) service is on a primary basis (see No. 33). (WRC-2000)
- 207 Additional allocation: in Australia, the band 1376144 MHz is also allocated to the broadcasting service on a primary basis until that service can be accommodated within regional broadcasting allocations.
- The use of the band 1376138 MHz by the mobileósatellite service is subject to coordination under No. **9.11A**. (WRC-97)
- In making assignments to space stations in the mobileósatellite service in the bands 137ó138 MHz, 387ó390 MHz and 400.15ó401 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the bands 150.05ó153 MHz, 322ó328.6 MHz, 406.1ó410 MHz and 608ó 614 MHz from harmful interference from unwanted emissions. The threshold levels of interference detrimental to the radio astronomy service are shown in the relevant ITU-R Recommendation. (WRC-07)

208B In the bands:

1376138 MHz, 3876390 MHz, 400.156401 MHz, 1 45261 492 MHz, 1 52561 610 MHz, 1 613.861 626.5 MHz, 2 65562 690 MHz, 21.4622 GHz,

Resolution 739 (Rev.WRC-07) applies. (WRC-07)

The use of the bands 1376138 MHz, 1486150.05 MHz, 399.96400.05 MHz, 400.156401 MHz, 4546456 MHz and 4596460 MHz by the mobileosatellite service is limited to non-geostationary-satellite systems. (WRC-97)

- 210 Additional allocation: in Italy, the Czech Rep. and the United Kingdom, the bands 1386143.6 MHz and 143.656144 MHz are also allocated to the space research service (space-to-Earth) on a secondary basis. (WRC-07)
- Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Ireland, Israel, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lebanon, Liechtenstein, Luxembourg, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the band 1386144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-12)
- Alternative allocation: in Angola, Botswana, Cameroon, the Central African Rep., Congo (Rep. of the), Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Lesotho, Liberia, Libya, Malawi, Mozambique, Namibia, Niger, Oman, Uganda, Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sierra Leone, South Africa, Swaziland, Chad, Togo, Zambia and Zimbabwe, the band 1386144 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-12)
- 213 Additional allocation: in China, the band 1386144 MHz is also allocated to the radiolocation service on a primary basis.
- 214 Additional allocation: in Eritrea, Ethiopia, Kenya, The Former Yugoslav Republic of Macedonia, Montenegro, Serbia, Somalia, Sudan, South Sudan and Tanzania, the band 1386144 MHz is also allocated to the fixed service on a primary basis. (WRC-12)
- 216 Additional allocation: in China, the band 1446146 MHz is also allocated to the aeronautical mobile (OR) service on a secondary basis.
- 217 Alternative allocation: in Afghanistan, Bangladesh, Cuba, Guyana and India, the band 146ó148 MHz is allocated to the fixed and mobile services on a primary basis.
- Additional allocation: the band 1486149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. **9.21**. The bandwidth of any individual transmission shall not exceed ±25 kHz.
- The use of the band 1486149.9 MHz by the mobileósatellite service is subject to coordination under No. **9.11A**. The mobileósatellite service shall not constrain the development and use of the fixed, mobile and space operation services in the band 1486149.9 MHz.

- The use of the bands 149.9ó150.05 MHz and 399.9ó400.05 MHz by the mobileósatellite service is subject to coordination under No. **9.11A**. The mobileósatellite service shall not constrain the development and use of the radionavigationósatellite service in the bands 149.9ó150.05 MHz and 399.9ó 400.05 MHz. (WRC-97)
- 221 Stations of the mobileósatellite service in the band 148ó149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte delvoire, Croatia, Cuba, Denmark, Diibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Ethiopia, the Russian Federation, Finland, France, Gabon, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Libva, Liechtenstein, Lithuania, Luxembourg, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem. Peoplegs Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Swaziland, Tanzania, Chad, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia, and Zimbabwe. (WRC-12)
- Emissions of the radionavigationósatellite service in the bands 149.96 150.05 MHz and 399.96400.05 MHz may also be used by receiving Earth stations of the space research service.
- Recognising that the use of the band 149.96150.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigationó satellite service, administrations are urged not to authorise such use in application of No. 4.4.
- The use of the bands 149.96150.05 MHz and 399.96400.05 MHz by the mobileósatellite service (Earth-to-space) is limited to the land mobileó satellite service (Earth-to-space) until 1 January 2015. (WRC-97)

- The allocation of the bands 149.96150.05 MHz and 399.96400.05 MHz to the radionavigationósatellite service shall be effective until 1 January 2015. (WRC-97)
- Additional allocation: in Australia and India, the band 150.05ó153 MHz is also allocated to the radio astronomy service on a primary basis.
- 225A Additional allocation: in Algeria, Armenia, Azerbaijan, Belarus, China, the Russian Federation, France, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and Viet Nam, the frequency band 1546156 MHz is also allocated to the radiolocation service on a primary basis. The usage of the frequency band 1546156 MHz by the radiolocation service shall be limited to space-object detection systems operating from terrestrial locations. The operation of stations in the radiolocation service in the frequency band 154ó156 MHz shall be subject to agreement obtained under No. 9.21. For the identification of potentially affected administrations in Region 1, the instantaneous field-strength value of 12 dB(V/m) for 10% of the time produced at 10 m above ground level in the 25 kHz reference frequency band at the border of the territory of any other administration shall be used. For the identification of potentially affected administrations in Region 3, the interference-to-noise ratio (I/N) value of 6 dB (N = 161 dBW/4 kHz), or 10 dB for applications with greater protection requirements, such as public protection and disaster relief (PPDR ($N = 161 \, \text{dBW}/4 \, \text{kHz}$)), for 1% of the time produced at 60 m above ground level at the border of the territory of any other administration shall be used. In the frequency bands 156.76256156.8375 MHz, 156.51256 156.5375 MHz, 161.96256161.9875 MHz, 162.01256162.0375 MHz, out-ofband e.i.r.p. of space surveillance radars shall not exceed 16 dBW. Frequency assignments to the radiolocation service under this allocation in Ukraine shall not be used without the agreement of Moldova.
- The frequency 156.525 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service using digital selective calling (DSC). The conditions for the use of this frequency and the band 156.4875ó156.5625 MHz are contained in Article 31 and 52, and Appendix 18.

The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency and the band 156.76256156.8375 MHz are contained in Article 31 and Appendix 18.

In the bands 156ó156.4875 MHz, 156.5625ó156.7625 MHz, 156.8375ó 157.45 MHz, 160.6ó160.975 MHz and 161.475ó162.05 MHz, each administration shall give priority to the maritime mobile service on only such

frequencies as are assigned to stations of the maritime mobile service by the administration (see Articles 31 and 52 and Appendix 18).

Any use of frequencies in these bands by stations of other services to which they are allocated should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunications service.

However, the frequencies 156.8 MHz and 156.525 MHz and the frequency bands in which priority is given to the maritime mobile service may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations and taking into account current frequency usage and existing agreements. (WRC-07)

- Additional allocation: the bands 156.48756156.5125 MHz and 156.53756 156.5625 MHz are also allocated to the fixed and land mobile services on a primary basis. The use of these bands by the fixed and land mobile services shall not cause harmful interference to nor claim protection from the maritime mobile VHF radio communication service. (WRC-07)
- The use of the frequency bands 156.76256156.7875 MHz and 156.81256 156.8375 MHz by the mobileósatellite service (Earth-to-space) is limited to the reception of automatic identification system (AIS) emissions of long-range AIS broadcast messages (Message 27, see the most recent version of Recommendation ITU-R M.1371). With the exception of AIS emissions, emissions in these frequency bands by systems operating in the maritime mobile service for communications shall not exceed 1 W.
- The frequency bands 161.96256161.9875 MHz and 162.01256 162.0375 MHz may be used by aircraft stations for the purpose of search and rescue operations and other safety-related communications.
- The use of the frequency bands 161.96256161.9875 MHz and 162.01256 162.0375 MHz by the fixed and land mobile services shall not cause harmful interference to, or claim protection from, the maritime mobile service.
- The use of the frequency bands 161.96256161.9875 MHz and 162.01256 162.0375 MHz by the maritime mobile service and the mobileósatellite (Earth-to-space) service is limited to the automatic identification system (AIS). The use of these frequency bands by the aeronautical mobile (OR) service is limited to AIS emissions from search and rescue aircraft operations. The AIS operations in these frequency bands shall not constrain the development and use of the fixed and mobile services operating in the adjacent frequency bands.

- The frequency bands 161.96256161.9875 MHz (AIS 1) and 162.01256 162.0375 MHz (AIS 2) may continue to be used by the fixed and mobile services on a primary basis until 1 January 2025, at which time this allocation shall no longer be valid. Administrations are encouraged to make all practicable efforts to discontinue the use of these bands by the fixed and mobile services prior to the transition date. During this transition period, the maritime mobile service in these frequency bands has priority over the fixed, land mobile and aeronautical mobile services.
- The use of the automatic identification system in the frequency bands 161.9625ó161.9875 MHz and 162.0125ó162.0375 MHz by the aeronautical mobile (OR) service is limited to aircraft stations for the purpose of search and rescue operations and other safety-related communications.
- The use of the frequency bands 161.96256161.9875 MHz and 162.01256 162.0375 MHz by the mobileósatellite service (Earth-to-space) is limited to the reception of automatic identification system emissions from stations operating in the maritime mobile service.
- Alternative allocation: in Morocco, the band 1626174 MHz is allocated to the broadcasting service on a primary basis. The use of this band shall be subject to agreement with administrations having services, operating or planned, in accordance with the Table which are likely to be affected. Stations in existence on 1 January 1981, with their technical characteristics as of that date, are not affected by such agreement.
- Additional allocation: in China, the band 163ó167 MHz is also allocated to the space operation service (space-to-Earth) on a primary basis, subject to agreement obtained under No. **9.21**.
- Additional allocation: in Afghanistan and China, the band 1676174 MHz is also allocated to the broadcasting service on a primary basis. The introduction of the broadcasting service into this band shall be subject to agreement with the neighbouring countries in Region 3 whose services are likely to be affected. (WRC-12)
- Additional allocation: in Japan, the band 1706174 MHz is also allocated to the broadcasting service on a primary basis.
- Additional allocation: in China, the band 174ó184 MHz is also allocated to the space research (space-to-Earth) and the space operation (space-to-Earth) services on a primary basis, subject to agreement obtained under No. 9.21. These services shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations.

- Different category of service: in Mexico, the allocation of the band 1746 216 MHz to the fixed and mobile services is on a primary basis (see No. 33).
- Additional allocation: in Germany, Austria, Belgium, Denmark, Spain, Finland, France, Israel, Italy, Liechtenstein, Malta, Monaco, Norway, the Netherlands, the United Kingdom, Sweden and Switzerland, the band 1746 223 MHz is also allocated to the land mobile service on a primary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, broadcasting stations, existing or planned, in countries other than those listed in this footnote.
- 237 Additional allocation: in Congo (Rep. of the), Egypt, Eritrea, Ethiopia, Gambia, Guinea, Libya, Mali, Sierra Leone, Somalia and Chad, the band 1746223 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)
- Additional allocation: in Bangladesh, India, Pakistan and the Philippines, the band 2006216 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- 240 Additional allocation: in China and India, the band 2166223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
- In Region 2, no new stations in the radiolocation service may be authorised in the band 216ó225 MHz. Stations authorised prior to 1 January 1990 may continue to operate on a secondary basis.
- 242 Additional allocation: in Canada, the band 2166220 MHz is also allocated to the land mobile service on a primary basis.
- 243 Additional allocation: in Somalia, the band 2166225 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to not causing harmful interference to existing or planned broadcasting services in other countries.
- 245 Additional allocation: in Japan, the band 2226223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
- Alternative allocation: in Spain, France, Israel and Monaco, the band 2236 230 MHz is allocated to the broadcasting and land mobile services on a primary basis (see No. 33) on the basis that, in the preparation of frequency plans, the broadcasting service shall have prior choice of frequencies; and allocated to the fixed and mobile, except land mobile, services on a

- secondary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations in Morocco and Algeria.
- 247 Additional allocation: in Saudi Arabia, Bahrain, the United Arab Emirates, Jordan, Oman, Qatar and the Syrian Arab Republic, the band 2236235 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- Additional allocation: in China, the band 2256235 MHz is also allocated to the radio astronomy service on a secondary basis.
- Additional allocation: in Nigeria, the band 2306235 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to agreement obtained under No. 9.21.
- Alternative allocation: in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the bands 2306 238 MHz and 2466254 MHz are allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.
- The bands 2356322 MHz and 335.46399.9 MHz may be used by the mobileó satellite service, subject to agreement obtained under No. **9.21**, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations except for the additional allocation made in footnote No. **256A**. (WRC-03)
- The bands 3126315 MHz (Earth-to-space) and 3876390 MHz (space-to-Earth) in the mobileósatellite service may also be used by non-geostationarysatellite systems. Such use is subject to coordination under No. **9.11A**.
- The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC-07)
- 256A Additional allocation: in China, the Russian Federation, Kazakhstan and Ukraine, the band 258ó261 MHz is also allocated to the space research service (Earth-to-space) and space operation service (Earth-to-space) on a primary basis. Stations in the space research service (Earth-to-space) and space operation service (Earth-to-space) shall not cause harmful interference to, nor claim protection from, nor constrain the use and development of the mobile service systems and mobileósatellite service systems operating in the band. Stations in the space research service (Earth-to-space) and space operation service (Earth-to-space) shall not constrain the future development of fixed service systems of other countries. (WRC-03)

- The band 2676272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. **9.21**.
- The use of the band 328.66335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).
- Additional allocation: in Egypt and the Syrian Arab Republic, the band 328.66335.4 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. 9.21. (WRC-12)
- Recognising that the use of the band 399.96400.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigation satellite service, administrations are urged not to authorise such use in application of No. 4.4.
- Emissions shall be confined in a band of ±25 kHz about the standard frequency 400.1 MHz.
- Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Botswana, Colombia, Cuba, Egypt, the United Arab Emirates, Ecuador, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Oman, Uzbekistan, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Kyrgyzstan, Singapore, Somalia, Tajikistan, Chad, Turkmenistan and Ukraine, the band 400.05ó401 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- The band 400.156401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.
- The use of the band 400.15ó401 MHz by the mobileósatellite service is subject to coordination under No. 9.11A. The power flux-density limit indicated in Annex 1 of Appendix 5 shall apply until such time as a competent world radiocommunication conference revises it.

- The use of the band 406ó406.1 MHz by the mobileósatellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article 31). (WRC-07)
- Any emission capable of causing harmful interference to the authorised uses of the band 406ó406.1 MHz is prohibited.
- Use of the band 4106420 MHz by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from extra-vehicular activities shall not exceed 153 dB(W/m²) for $0^{\circ} \le \delta \le 5^{\circ}$, 153 + 0.077 ($\delta = 5$) dB(W/m²) for $5^{\circ} \le \delta \le 70^{\circ}$ and 148 dB(W/m²) for $70^{\circ} \le \delta \le 90^{\circ}$, where δ is the angle of arrival of the radiofrequency wave and the reference bandwidth is 4 kHz. No. **4.10** does not apply to extra-vehicular activities. In this frequency band the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile service. (WRC-97)
- Different category of service: in Australia, the United States, India, Japan and the United Kingdom, the allocation of the bands 4206430 MHz and 4406 450 MHz to the radiolocation service is on a primary basis (see No. 33).
- 270 Additional allocation: in Australia, the United States, Jamaica and the Philippines, the bands 4206430 MHz and 4406450 MHz are also allocated to the amateur service on a secondary basis.
- 271 Additional allocation: in Belarus, China, India, Kyrgyzstan and Turkmenistan, the band 4206460 MHz is also allocated to the aeronautical radionavigation service (radio altimeters) on a secondary basis. (WRC-07)
- Alternative allocation: in Denmark, Norway Sweden and Chad, the bands 4306432 MHz and 4386440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- Additional allocation: in Croatia, Estonia, Finland, the Libyan Arab Jamahiriya, the Former Yugoslav Republic of Macedonia, Montenegro, Serbia and Slovenia, the bands 4306432 MHz and 4386440 MHz are also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-07)
- 276 Additional allocation: in Afghanistan, Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Djibouti, Egypt, the United Arab Emirates, Ecuador, Eritrea, Ethiopia, Greece, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Italy, Jordan, Kenya, Kuwait, Libya, Malaysia, Niger, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian

Arab Republic, the Dem. People Rep. of Korea, Singapore, Somalia, Sudan, Switzerland, Tanzania, Thailand, Togo, Turkey and Yemen, the band 4306440 MHz is also allocated to the fixed service on a primary basis and the bands 4306435 MHz and 4386440 MHz are also allocated to the mobile, except aeronautical mobile, service on a primary basis. (WRC-12)

- Additional allocation: in Angola, Armenia, Azerbaijan, Belarus, Cameroon, Congo (Rep. of the), Djibouti, the Russian Federation, Georgia, Hungary, Israel, Kazakhstan, Mali, Mongolia, Uzbekistan, Poland, the Dem. Rep. of the Congo, Kyrgyzstan, Slovakia, Romania, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the band 430ó440 MHz is also allocated to the fixed service on a primary basis. (WRC-12)
- Different category of service: in Argentina, Colombia, Costa Rica, Cuba, Guyana, Honduras, Panama and Venezuela, the allocation of the band 4306 440 MHz to the amateur service is on a primary basis (see No. 33).
- Additional allocation: in Mexico, the bands 4306435 MHz and 4386 440 MHz are also allocated on a primary basis to the land mobile service, subject to agreement obtained under No. 9.21.
- The use of this band by sensors in the Earth explorationósatellite service (active) shall be in accordance with Recommendation ITU-R RS.126061. Additionally, the Earth explorationósatellite service (active) in the band 4326 438 MHz shall not cause harmful interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the obligation of the Earth explorationósatellite service (active) to operate as a secondary service in accordance with Nos. 29 and 30. (WRC-03)
- In Germany, Austria, Bosnia and Herzegovina, Croatia, the Former Yugoslav Republic of Macedonia, Liechtenstein, Montenegro, Portugal, Serbia, Slovenia and Switzerland, the band 433.056434.79 MHz (centre frequency 433.92 MHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunications services of these countries operating within this band must accept harmful interference which may be caused by these applications. ISM equipment operating in this band is subject to the provisions of No. **15.13**. (WRC-07)
- Additional allocation: in the French Overseas Departments and Communities in Region 2 and India, the band 433.756434.25 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis. In France and in Brazil, the band is allocated to the same service on a secondary basis.

- In the bands 4356438 MHz, 1 26061 270 MHz, 2 40062 450 MHz, 3 4006 3 410 MHz (in Regions 2 and 3 only) and 5 65065 670 MHz, the amateuró satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see No. 43). Administrations authorising such use shall ensure that any harmful interference caused by emissions from a station in the amateurósatellite service is immediately eliminated in accordance with the provisions of No. 25.11. The use of the bands 1 26061 270 MHz and 5 65065 670 MHz by the amateurósatellite service is limited to the Earth-to-space direction.
- Additional allocation: in Austria, the band 4386440 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- Additional allocation: in Canada, the band 4406450 MHz is also allocated to the amateur service on a secondary basis.
- Different category of service: in Canada, the allocation of the band 4406 450 MHz to the radiolocation service is on a primary basis (see No. 33).
- The band 449.756450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to agreement obtained under No. 9.21.
- The use of the bands 4546456 MHz and 4596460 MHz by the mobileó satellite service is subject to coordination under No. **9.11A**. (WRC-97)
- 286AA The band 4506470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). See Resolution 224 (Rev.WRC-07). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-07)
- The use of the band 4546455 MHz in the countries listed in **286D**, 4556 456 MHz and 4596460 MHz in Region 2, and 4546456 MHz and 4596 460 MHz in the countries listed in **286E**, by stations in the mobileosatellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations. (WRC-97)
- 286C The use of the band 4546455 MHz in the countries listed in **286D**, 4556 456 MHz and 4596460 MHz in Region 2, and 4546456 MHz and 4596 460 MHz in the countries listed in **286E**, by stations in the mobile of satellite service, shall not constrain the development and use of the fixed and mobile

- services operating in accordance with the Table of Frequency Allocations. (WRC-97)
- 286D *Additional allocation:* in Canada, the United States and Panama, the band 4546455 MHz is also allocated to the mobileósatellite service (Earth-to-space) on a primary basis. (WRC-07)
- Additional allocation: in Cape Verde, Nepal and Nigeria, the bands 4546 456 MHz and 4596460 MHz are also allocated to the mobileósatellite (Earthto-space) service on a primary basis. (WRC-07)
- In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. The use of these frequencies in territorial waters may be subject to the national regulations of the administration concerned. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-2. (WRC-07)
- In the territorial waters of the United States and the Philippines, the preferred frequencies for use by on-board communication stations shall be 457.525 MHz, 457.550 MHz, 457.575 MHz and 457.600 MHz paired, respectively, with 467.750 MHz, 467.775 MHz, 467.800 MHz and 467.825 MHz. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-2. (WRC-03)
- Earth explorationósatellite service applications, other than the meteorologicalósatellite service, may also be used in the bands 4606 470 MHz and 1 69061 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- Different category of service: in Afghanistan, Azerbaijan, Belarus, China, the Russian Federation, Japan, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 460ó470 MHz to the meteorologicalósatellite service (space-to-Earth) is on a primary basis (see No. 33), subject to agreement obtained under No. 9.21. (WRC-12)
- Additional allocation: in China, the band 4706485 MHz is also allocated to the space research (space-to-Earth) and the space operation (space-to-Earth) services on a primary basis subject to agreement obtained under No. 9.21 and subject to not causing harmful interference to existing and planned broadcasting stations.

- 291A *Additional allocation:* in Germany, Austria, Denmark, Estonia, Finland, Liechtenstein, Norway, the Netherlands, the Czech Rep. and Switzerland, the band 4706494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97). (WRC-97)
- Different category of service: in Mexico, the allocation of the band 4706 512 MHz to the fixed and mobile services, and in Argentina, Uruguay and Venezuela to the mobile service, is on a primary basis, (see No. 33), subject to agreement obtained under No. 9.21. (WRC-07)
- Different category of service: in Canada, Chile, Cuba, the United States, Guyana, Honduras, Jamaica, Mexico, Panama and Peru, the allocation of the bands 4706512 MHz and 6146806 MHz to the fixed service is on a primary basis (see No. 33), subject to agreement obtained under No. 9.21. In Canada, Chile, Cuba, the United States, Guyana, Honduras, Jamaica, Mexico, Panama and Peru, the allocation of the bands 4706512 MHz and 6146698 MHz to the mobile service is on a primary basis (see No. 33), subject to agreement obtained under No. 9.21. In Argentina and Ecuador, the allocation of the band 4706512 MHz to the fixed and mobile services is on a primary basis (see No. 33), subject to agreement obtained under No. 9.21. (WRC-12)
- 294 Additional allocation: in Saudi Arabia, Cameroon, Côte dølvoire, Egypt, Ethiopia, Israel, Kenya, Libya, the Syrian Arab Republic, South Sudan, Chad and Yemen, the band 4706582 MHz is also allocated to the fixed service on a secondary basis. (WRC-12)
- 296 Additional allocation: in Albania, Germany, Saudi Arabia, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Burkina Faso, Cameroon, Congo (Rep. of the), Côte dølvoire, Croatia, Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Finland, France, Gabon, Ghana, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kuwait, Latvia, The Former Yugoslav Republic of Macedonia, Libya, Liechtenstein, Lithuania, Luxembourg, Mali, Malta, Morocco, Moldova, Monaco, Niger, Norway, Oman, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, the Czech Republic, the United Kingdom, Sudan, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia and Turkey, the band 4706790 MHz, and in Angola, Botswana, Lesotho, Malawi, Mauritius, Mozambique, Namibia, Nigeria, South Africa, Tanzania, Zambia and Zimbabwe, the band 4706698 MHz are also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-12)

- 297 Additional allocation: in Canada, Costa Rica, Cuba, El Salvador, the United States, Guatemala, Guyana, Honduras, Jamaica and Mexico, the band 5126 608 MHz is also allocated to the fixed and mobile services on a primary basis, subject to agreement obtained under No. 9.21. (WRC-07)
- 298 Additional allocation: in India, the band 549.75ó550.25 MHz is also allocated to the space operation service (space-to-Earth) on a secondary basis.
- 300 Additional allocation: in Saudi Arabia, Cameroon, Egypt, United Arab Emirates, Israel, Jordan, Libya, Oman, the Syrian Arab Republic, Sudan and South Sudan, the band 5826790 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-12)
- 304 Additional allocation: in the African Broadcasting Area (see Nos. 10 to 13), the band 6066614 MHz is also allocated to the radio astronomy service on a primary basis.
- Additional allocation: in China, the band 606ó614 MHz is also allocated to the radio astronomy service on a primary basis.
- 306 Additional allocation: in Region 1, except in the African Broadcasting Area (see Nos. 10 to 13), and in Region 3, the band 608ó614 MHz is also allocated to the radio astronomy service on a secondary basis.
- 307 Additional allocation: in India, the band 6086614 MHz is also allocated to the radio astronomy service on a primary basis.
- 309 Different category of service: in Costa Rica, El Salvador and Honduras, the allocation of the band 614ó806 MHz to the fixed service is on a primary basis, (see No. 33), subject to agreement obtained under No. 9.21.
- For the frequency band 6206790 MHz, see also Resolution **549** (WRC-**07**). (WRC-07)
- Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 645ó862 MHz, in Bulgaria the bands 646ó686 MHz, 726ó758 MHz, 766ó814 MHz and 822ó862 MHz, in Romania the band 830ó862 MHz, and in Poland the band 830ó860 MHz until 31 December 2012 and the band 860ó862 MHz until 31 December 2017, are also allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)

- In Region 1, the use of the band 6946790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution 232 (WRC-12). See also Resolution 224 (Rev.WRC-12).
- The band, or portions of the band 6986790 MHz, in Bangladesh, China, Korea (Rep. of), India, Japan, New Zealand, Pakistan, Papua New Guinea, Philippines and Singapore are identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. In China, the use of IMT in this band will not start until 2015. (WRC-12)
- Different category of service: in Brazil, the allocation of the band 6986 806 MHz to the mobile service is on a secondary basis (see No. 32). (WRC-07)
- 314 Additional allocation: in Austria, Italy, Moldova, Uzbekistan, Kyrgyzstan and the United Kingdom, the band 790ó862 MHz is also allocated to the land mobile service on a secondary basis. (WRC-12)
- Alternative allocation: in Greece, the band 7906838 MHz is allocated to the broadcasting service on a primary basis. (WRC-12)
- Additional allocation: in Germany, Saudi Arabia, Bosnia and Herzegovina, Burkina Faso, Cameroon, Côte delvoire, Croatia, Denmark, Egypt, Finland, Greece, Israel, the Libyan Arab Jamahiriya, Jordan, Kenya, the Former Yugoslav Republic of Macedonia, Liechtenstein, Mali, Monaco, Montenegro, Norway, the Netherlands, Portugal, the United Kingdom, the Syrian Arab Republic, Serbia, Sweden and Switzerland, the band 7906 830 MHz, and in these same countries and in Spain, France, Gabon and Malta, the band 8306862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis. However, stations of the mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, stations of services operating in accordance with the Table in countries other than those mentioned in connection with the band. This allocation is effective until 16 June 2015. (WRC-07)
- 316A Additional allocation: in Spain, France, Gabon and Malta, the band 7906 830 MHz, in Albania, Angola, Bahrain, Benin, Botswana, Burundi, Congo (Rep. of the), Egypt, United Arab Emirates, Estonia, Region Gambia, Ghana, Guinea, Guinea-Bissau, Hungary, Iraq, Kuwait, Lesotho, Latvia, Lebanon, Lithuania, Luxembourg, Malawi, Morocco, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Poland, Qatar, Slovakia, Czech Republic, Romania, Rwanda, Senegal, Sudan, South Sudan, South Africa,

Swaziland, Tanzania, Chad, Togo, Yemen, Zambia, Zimbabwe and French overseas departments and communities of Region 1, the band 7906862 MHz, and in Georgia, the band 8066862 MHz, are also allocated to the mobile, except aeronautical mobile, service on a primary basis subject to the agreement by the administrations concerned obtained under No. 9.21 and under the GE06 Agreement, as appropriate, including those administrations mentioned in No. 312, where appropriate. See Resolutions 224 (Rev.WRC-12) and 749 (Rev.WRC-12). This allocation is effective until 16 June 2015. (WRC-12)

- In Region 1, the allocation to the mobile, except aeronautical mobile, service on a primary basis in the frequency band 790ó862 MHz shall come into effect from 17 June 2015 and shall be subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 312. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that Agreement. Resolutions 224 (Rev.WRC-12) and 749 (WRC-12) shall apply, as appropriate. (WRC-12)
- 317 Additional allocation: in Region 2 (except Brazil and the United States), the band 806ó890 MHz is also allocated to the mobileósatellite service on a primary basis, subject to agreement obtained under No. 9.21. The use of this service is intended for operation within national boundaries.
- Those parts of the band 6986960 MHz in Region 2 and the band 7906 960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) see Resolutions 224 (Rev.WRC-12) and 749 (WRC-12), as appropriate. This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-12)
- Additional allocation: in Canada, the United States and Mexico, the bands 8496851 MHz and 8946896 MHz are also allocated to the aeronautical mobile service on a primary basis, for public correspondence with aircraft. The use of the band 8496851 MHz is limited to transmissions from aeronautical stations and the use of the band 8946896 MHz is limited to transmissions from aircraft stations.
- Additional allocation: in Belarus, the Russian Federation and Ukraine, the bands 806ó840 MHz (Earth-to-space) and 856ó890 MHz (space-to-Earth) are also allocated to the mobileósatellite, except aeronautical mobileó satellite (R), service. The use of these bands by this service shall not cause harmful interference to, or claim protection from, services in other countries

- operating in accordance with the Table of Frequency Allocations and is subject to special agreements between the administrations concerned.
- 320 Additional allocation: in Region 3, the bands 8066890 MHz and 9426 960 MHz are also allocated to the mobileósatellite, except aeronautical mobileósatellite (R), service on a primary basis, subject to agreement obtained under No. 9.21. The use of this service is limited to operation within national boundaries. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table, to ensure that no harmful interference is caused to such services.
- In Region 1, in the band 8626960 MHz, stations of the broadcasting service shall be operated only in the African Broadcasting Area (see Nos. 10 to 13) excluding Algeria, Burundi, Egypt, Spain, Lesotho, Libya, Morocco, Malawi, Namibia, Nigeria, South Africa, Tanzania, Zimbabwe and Zambia, subject to agreement obtained under No. 9.21. (WRC-12)
- Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 8626960 MHz, in Bulgaria the bands 8626890.2 MHz and 9006935.2 MHz, in Poland the band 8626876 MHz until 31 December 2017, and in Romania the bands 8626880 MHz and 9156925 MHz, are also allocated to the aeronautical radionavigation service on a primary basis. Such use is subject to agreement obtained under No. 9.21 with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-12)
- Different category of service: in the United States, the allocation of the band 8906942 MHz to the radiolocation service is on a primary basis, (see No. 33), subject to agreement obtained under No. 9.21.
- 325A Different category of service: in Cuba, the allocation of the band 9026 915 MHz to the land mobile service is on a primary basis. (WRC-2000)
- 326 Different category of service: in Chile, the band 9036905 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. 9.21.
- 327 *Different category of service:* in Australia, the allocation of the band 9156 928 MHz to the radiolocation service is on a primary basis (see No. **33**).
- The use of the frequency band 96061 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognised international aeronautical standards. Such use shall be in accordance with Resolution 417 (WRC-12). (WRC-12)

- The use of the band 96061 215 MHz by the aeronautical radionavigation service is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated ground-based facilities. (WRC-2000)
- 328A Stations in the radionavigationósatellite service in the band 1 1646 1 215 MHz shall operate in accordance with the provisions of Resolution 609 (Rev.WRC-07) and shall not claim protection from stations in the aeronautical radionavigation service in the band 96061 215 MHz. No. 43A does not apply. The provisions of No. 21.18 shall apply. (WRC-07)
- The use of the bands 1 16461 300 MHz, 1 55961 610 MHz and 5 0106 5 030 MHz by systems and networks in the radionavigationósatellite service for which complete coordination or notification information, as appropriate, is received by the Radiocommunication Bureau after 1 January 2005 is subject to the application of the provisions of Nos. 9.12, 9.12A and 9.13. Resolution 610 (WRC-03) shall also apply; however, in the case of radionavigationósatellite service (space-to-space) networks and systems, Resolution 610 (WRC-03) shall only apply to transmitting space stations. In accordance with No. 329A, for systems and networks in the radionavigationó satellite service (space-to-space) in the bands 1 21561 300 MHz and 1 5596 1 610 MHz, the provisions of Nos. 9.7, 9.12, 9.12A and 9.13 shall only apply with respect to other systems and networks in the radionavigationósatellite service (space-to-space). (WRC-07)
- Use of the radionavigationósatellite service in the band 1 21561 300 MHz shall be subject to the condition that no harmful interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. 331. Furthermore, the use of the radionavigationósatellite service in the band 1 21561 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. No. 43 shall not apply in respect of the radiolocation service. Resolution 608 (WRC-03) shall apply. (WRC-03)
- 329A Use of systems in the radionavigationósatellite service (space-to-space) operating in the bands 1 21561 300 MHz and 1 55961 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigationósatellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
- 330 Additional allocation: in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel,

Japan, Jordan, Kuwait, Nepal, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the band 1 21561 300 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)

- Additional allocation: in Algeria, Germany, Saudi Arabia, Australia, 331 Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, The Former Yugoslav Republic of Macedonia, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Turkey, Venezuela and Viet Nam, the band 121561300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the band 1 24061 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-12)
- In the band 1 215ó1 260 MHz, active spaceborne sensors in the Earth explorationósatellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigationó satellite service and other services allocated on a primary basis. (WRC-2000)
- 334 Additional allocation: in Canada and the United States, the band 1 3506 1 370 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)
- In Canada and the United States in the band 1 24061 300 MHz, active spaceborne sensors in the Earth explorationósatellite and space research services shall not cause interference to, claim protection from, or otherwise impose constraints on operation or development of the aeronautical radionavigation service. (WRC-97)
- 335A In the band 1 260ó1 300 MHz, active spaceborne sensors in the Earth explorationósatellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis. (WRC-2000)

- The use of the bands 1 30061 350 MHz, 2 70062 900 MHz and 9 0006 9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
- 337A The use of the band 1 30061 350 MHz by Earth stations in the radionavigationósatellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
- In Kyrgyzstan, Slovakia and Turkmenistan, existing installations of the radionavigation service may continue to operate in the band 1 3506 1 400 MHz. (WRC-12)
- 338A In the bands 1 35061 400 MHz, 1 42761 452 MHz, 22.55623.55 GHz, 306 31.3 GHz, 49.7650.2 GHz, 50.4650.9 GHz, 51.4652.6 GHz, 81686 GHz and 92694 GHz, Resolution **750** (**Rev.WRC-12**) applies. (WRC-12)
- The bands 1 37061 400 MHz, 2 64062 655 MHz, 4 95064 990 MHz and 15.20615.35 GHz are also allocated to the space research (passive) and Earth explorationósatellite (passive) services on a secondary basis.
- All emissions are prohibited in the following bands:

1 400ó1 427 MHz,

2 69062 700 MHz, except those provided for by No. 422,

10.68610.7 GHz, except those provided for by No. 483,

15.35ó15.4 GHz, except those provided for by No. 511,

23.6ó24 GHz.

31.3631.5 GHz,

31.5631.8 GHz, in Region 2,

48.94649.04 GHz, from airborne stations,

50.2650.4 GHz²,

52.6654.25 GHz.

86ó92 GHz,

100ó102 GHz,

² 340.1 The allocation to the Earth exploration-satellite (passive) and the space research service (passive) in the band 50.2-50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97).

109.5ó111.8 GHz,

114.25ó116 GHz,

148.5ó151.5 GHz,

1646167 GHz,

182ó185 GHz.

190ó191.8 GHz.

200ó209 GHz,

226ó231.5 GHz,

2506252 GHz. (WRC-03)

- In the bands 1 40061 727 MHz, 1016120 GHz and 1976220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.
- Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Uzbekistan, Kyrgyzstan and Ukraine, the band 1 4296 1 535 MHz, and in Bulgaria the band 1 52561 535 MHz, are also allocated to the aeronautical mobile service on a primary basis exclusively for the purposes of aeronautical telemetry within the national territory. As of 1 April 2007, the use of the band 1 45261 492 MHz is subject to agreement between the administrations concerned. (WRC-12)
- In Region 2, the use of the band 1 43561 535 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.
- 344 Alternative allocation: in the United States, the band 1 45261 525 MHz is allocated to the fixed and mobile services on a primary basis. (See also No. 343.)
- Use of the band 1 45261 492 MHz by the broadcastingósatellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution **528** (Rev.WRC-03). (WRC-03)
- The use of the band 1 51861 525 MHz by the mobileósatellite service is subject to coordination under No. 9.11A. In the band 1 51861 525 MHz stations in the mobileósatellite service shall not claim protection from the stations in the fixed service. No. 43A does not apply. (WRC-03)
- In the band 1 51861 525 MHz, the coordination threshold in terms of the power flux-density levels at the surface of the Earth in application of No. **9.11A** for space stations in the mobileósatellite (space-to-Earth) service,

with respect to the land mobile service use for specialised mobile radios or used in conjunction with public switched telecommunication networks (PSTN) operating within the territory of Japan, shall be 150 dB(W/m²) in any 4 kHz band for all angles of arrival, instead of those given in Table 562 of Appendix 5. In the band 1 51861 525 MHz stations in the mobile service in the territory of Japan. No. **43A** does not apply. (WRC-03)

- In the band 1 51861 525 MHz, stations in the mobile service shall not claim protection from aeronautical mobile telemetry stations in the mobile service in the territory of the United States (see Nos. 343 and 344) and in the countries listed in No. 342. No. 43A does not apply. (WRC-03)
- Different category of service: in Saudi Arabia, Azerbaijan, Bahrain, Cameroon, Egypt, France, Iran (Islamic Republic of), Iraq, Israel, Kazakhstan, Kuwait, the Former Yugoslav Republic of Macedonia, Lebanon, Morocco, Qatar, the Syrian Arab Republic, Kyrgyzstan, Turkmenistan and Yemen, the allocation of the band 1 52561 530 MHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 33). (WRC-07)
- 350 Additional allocation: in Azerbaijan, Kyrgyzstan and Turkmenistan, the band 1 52561 530 MHz is also allocated to the aeronautical mobile service on a primary basis.
- The bands 1 52561 544 MHz, 1 54561 559 MHz, 1 626.561 645.5 MHz and 1 646.561 660.5 MHz shall not be used for feeder links of any service. In exceptional circumstances, however, an earth station at a specified fixed point in any of the mobileósatellite services may be authorized by an administration to communicate via space stations using these bands.
- 351A For the use of the bands 1 51861 544 MHz, 1 54561 559 MHz, 1 6106 1 645.5 MHz, 1 646.561 660.5 MHz, 1 66861675 MHz, 1 98062 010 MHz, 2 17062 200 MHz, 2 483.562 520 MHz and 2 67062 690 MHz by the mobileósatellite service, see Resolutions 212 (Rev.WRC-07) and 225 (Rev.WRC-07). (WRC-07)
- In the band 1 52561 530 MHz, stations in the mobileósatellite service, except stations in the maritime mobileósatellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed service in France and French overseas communities of Region 3, Algeria, Saudi Arabia, Egypt, Guinea, India, Israel, Italy, Jordan, Kuwait, Mali, Morocco, Mauritania, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Tanzania, Viet Nam and Yemen notified prior to 1 April 1998. (WRC-12)

- In applying the procedures of Section II of Article 9 to the mobileósatellite service in the bands 1 530ó1 544 MHz and 1 626.5ó1 645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobileósatellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobileósatellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobileósatellite services (the provisions of Resolution 222 (WRC-2000) shall apply). (WRC-2000)
- The use of the bands 1 525ó1 559 MHz and 1 626.5ó1 660.5 MHz by the mobileósatellite services is subject to coordination under No. **9.11A**.
- Additional allocation: in Bahrain, Bangladesh, Congo (Rep. of the), Djibouti, Egypt, Eritrea, Iraq, Israel, Kuwait, Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the bands 1 5406 1 559 MHz, 1 61061 645.5 MHz and 1 646.561 660 MHz are also allocated to the fixed service on a secondary basis. (WRC-12)
- The use of the band 1 54461 545 MHz by the mobileósatellite service (space-to-Earth) is limited to distress and safety communications (see Article 31).
- 357 Transmissions in the band 1 54561 555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorised when such transmissions are used to extend or supplement the satellite-to-aircraft links.
- In applying the procedures of Section II of Article 9 to the mobileósatellite service in the frequency bands 1 545ó1 555 MHz and 1 646.5ó1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobileósatellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. Aeronautical mobileósatellite (R) service communications with priority 1 to 6 in Article 44 shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services (the provisions of Resolution 222 (WRC-12) shall apply). (WRC-12)

- Additional allocation: in Germany, Saudi Arabia, Armenia, Austria, Azerbaijan, Belarus, Benin, Cameroon, the Russian Federation, France, Georgia, Greece, Guinea, Guinea-Bissau, Jordan, Kazakhstan, Kuwait, Lithuania, Mauritania, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. Peopleøs Rep. of Korea, Romania, Tajikistan, Tanzania, Tunisia, Turkmenistan and Ukraine, the bands 1 550ó 1 559 MHz, 1 610ó1 645.5 MHz and 1 646.5ó1 660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to make all practicable efforts to avoid the implementation of new fixed-service stations in these bands. (WRC-12)
- In the United States, in the bands 1 555ó1 559 MHz and 1 656.5ó 1 660.5 MHz, the aeronautical mobileósatellite (R) service shall have priority access and immediate availability, by pre-emption if necessary, over all other mobileósatellite communications operating within a network. Mobileó satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobileósatellite (R) service communications with priority 1 to 6 in Article 44. Account shall be taken of the priority of safety-related communications in the other mobileósatellite services. (WRC-97)
- Additional allocation: The band 1 55961 610 MHz is also allocated to the 362B fixed service on a primary basis until 1 January 2010 in Algeria, Saudi Arabia, Cameroon, Jordan, Mali, Mauritania, Syrian Arab Republic and Tunisia. After this date, the fixed service may continue to operate on a secondary basis until 1 January 2015, at which time this allocation shall no longer be valid. The band 1 55961 610 MHz is also allocated to the fixed service on a secondary basis in Algeria, Armenia, Azerbaijan, Belarus, Benin, Russian Federation, Gabon, Georgia, Guinea, Guinea-Bissau, Kazakhstan, Lithuania, Nigeria, Uzbekistan, Pakistan, Poland, Kyrgyzstan, Dem. People Rep. of Korea, Romania, Senegal, Tajikistan, Tanzania, Turkmenistan and Ukraine until 1 January 2015, at which time this allocation shall no longer be valid. Administrations are urged to take all practicable steps to protect the radionavigationósatellite service and the aeronautical radionavigation service and not authorize new frequency assignments to fixed-service systems in this band. (WRC-12)
- Additional allocation: in Congo (Rep. of the), Eritrea, Iraq, Israel, Jordan, Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the band 1 55961 610 MHz is also allocated to the fixed service on a secondary basis until 1 January 2015, at which time this allocation shall no longer be valid. Administrations are urged to take all practicable steps to protect the radionavigationósatellite service and not authorize new frequency assignments to fixed-service systems in this band. (WRC-12)

- 364 The use of the band 1 61061 626.5 MHz by the mobile osatellite service (Earth-to-space) and by the radiodeterminationósatellite service (Earth-tospace) is subject to coordination under No. 9.11A. A mobile Earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of 15 dB(W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. 366 (to which No. 4.10 applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile Earth station shall not exceed 3 dB(W/4 kHz). Stations of the mobileósatellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 366 and stations in the fixed service operating in accordance with the provisions of No. 359. Administrations responsible for the coordination of mobileósatellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. 366.
- The use of the band 1 613.861 626.5 MHz by the mobileósatellite service (space-to-Earth) is subject to coordination under No. **9.11A**.
- The band 1 61061 626.5 MHz is reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities. Such satellite use is subject to agreement obtained under No. 9.21.
- Additional allocation: The frequency band 1 61061 626.5 MHz is also allocated to the aeronautical mobileósatellite (R) service on a primary basis, subject to agreement obtained under No. 9.21.
- With respect to the radiodeterminationósatellite and mobileósatellite services the provisions of No. **4.10** do not apply in the band 1 610ó1 626.5 MHz, with the exception of the aeronautical radionavigationósatellite service.
- Different category of service: in Angola, Australia, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), Israel, Lebanon, Liberia, Madagascar, Mali, Pakistan, Papua New Guinea, Syrian Arab Republic, the Dem. Rep. of the Congo, Sudan, South Sudan, Togo and Zambia, the allocation of the band 1 61061 626.5 MHz to the radiodeterminationósatellite service (Earth-tospace) is on a primary basis (see No. 33), subject to agreement obtained under No. 9.21 from countries not listed in this provision. (WRC-12)
- 370 *Different category of service:* in Venezuela, the allocation to the radiodeterminationósatellite service in the band 1 610ó1 626.5 MHz (Earthto-space) is on a secondary basis.

- 371 Additional allocation: in Region 1, the band 1 61061 626.5 MHz (Earth-to-space) is also allocated to the radiodeterminationósatellite service on a secondary basis, subject to agreement obtained under No. 9.21. (WRC-12)
- Harmful interference shall not be caused to stations of the radio astronomy service using the band 1 610.661 613.8 MHz by stations of the radiodeterminationósatellite and mobileósatellite services. (No. **29.13** applies.)
- Mobile Earth stations in the mobileósatellite service operating in the bands 1 631.5ó1 634.5 MHz and 1 656.5ó1 660 MHz shall not cause harmful interference to stations in the fixed service operating in the countries listed in No. 359. (WRC-97)
- The use of the band 1 645.5ó1 646.5 MHz by the mobileósatellite service (Earth-to-space) and for interósatellite links is limited to distress and safety communications (see Article 31).
- 376 Transmissions in the band 1 646.561 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorized when such transmissions are used to extend or supplement the aircraft-to-satellite links.
- Mobile Earth stations operating in the band 1 660.061 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)
- 379 Additional allocation: in Bangladesh, India, Indonesia, Nigeria and Pakistan, the band 1 660.5ó1 668.4 MHz is also allocated to the meteorological aids service on a secondary basis.
- Administrations are urged to give all practicable protection in the band 1 660.561 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.461 668.4 MHz as soon as practicable.
- The use of the band 1 66861 675 MHz by the mobileósatellite service is subject to coordination under No. 9.11A. In the band 1 66861 668.4 MHz, Resolution 904 (WRC-07) shall apply. (WRC-07)
- 379C In order to protect the radio astronomy service in the band 1 66861 670 MHz, the aggregate power flux-density values produced by mobile Earth stations in a network of the mobileósatellite service operating in this band shall not exceed 181 dB(W/m²) in 10 MHz and 194 dB(W/m²) in any 20 kHz at any

- radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
- For sharing of the band 1 668.461 675 MHz between the mobileósatellite service and the fixed and mobile services, Resolution **744** (Rev.WRC-07) shall apply. (WRC-07)
- 379E In the band 1 668.461 675 MHz, stations in the mobileósatellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1 668.461 675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)
- In the band 1 67061 675 MHz, stations in the mobileósatellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorologicalósatellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobileósatellite service. (WRC-07)
- Additional allocation: in Afghanistan, Cuba, India, Iran (Islamic Republic of) and Pakistan, the band 1 69061 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, the Russian Federation, Guinea, Iraq, Israel, Jordan, Kazakhstan, Kuwait, the Former Yugoslav Republic of Macedonia, Lebanon, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tanzania, Turkmenistan, Ukraine and Yemen, the allocation of the band 1 6906 1 700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 33), and in the Dem. People& Rep. of Korea, the allocation of the band 1 69061 700 MHz to the fixed service is on a primary basis (see No. 33) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC-12)
- 384 Additional allocation: in India, Indonesia, and Japan the band 1 7006 1 710 MHz is also allocated to the space research service (space-to-Earth) on a primary basis. (WRC-97)
- The bands, or portions of the bands, 171061 885 MHz, 230062 400 MHz and 250062 690 MHz, are identified for use by administrations wishing to

implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-07). This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07)

- Additional allocation: the band 1 718.861 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)
- Additional allocation: the band 1 75061 850 MHz is also allocated to the space operation (Earth-to-space) and space research (Earth-to-space) services in Region 2, in Australia, Guam, India, Indonesia and Japan on a primary basis, subject to agreement obtained under No. 9.21, having particular regard to troposcatter systems. (WRC-03)
- Additional allocation: in Belarus, Georgia, Kazakhstan, Kyrgyzstan, Romania, Tajikistan and Turkmenistan, the band 1 77061 790 MHz is also allocated to the meteorologicalósatellite service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-12)
- The bands 1 88562 025 MHz and 2 11062 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunicationsó2000 (IMTó2000). Such use does not preclude the use of these bands by other services to which they are allocated. The bands should be made available for IMTó2000 in accordance with Resolution 212 (Rev.WRC-97) (see also Resolution 223 (WRC-2000)). (WRC-2000)
- In Regions 1 and 3, the bands 1 88561 980 MHz, 2 01062 025 MHz and 2 11062 170 MHz and, in Region 2, the bands 1 88561 980 MHz and 2 1106 2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications 62000 (IMT 62000), in accordance with Resolution 221 (Rev.WRC-03). Their use by IMT 62000 applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-03)
- In Algeria, Saudi Arabia, Bahrain, Benin, Burkina Faso, Cameroon, Comoros, Côte dolvoire, China, Cuba, Djibouti, Egypt, United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, India, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Libya, Mali, Morocco, Mauritania, Nigeria, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, Senegal, Singapore, Sudan, South Sudan, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, for the purpose of protecting fixed and mobile services, including IMTó2000 mobile stations, in their territories from co-

channel interference, a high altitude platform station (HAPS) operating as an IMTó2000 base station in neighbouring countries, in the bands referred to in No. **388A**, shall not exceed a co-channel power flux-density of 127 dB(W/(m²·MHz)) at the Earthøs surface outside a countryøs borders unless explicit agreement of the affected administration is provided at the time of the notification of HAPS. (WRC-12)

- The use of the bands 1 98062 010 MHz and 2 17062 200 MHz by the mobileósatellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)
- The use of the band 1 98061 990 MHz by the mobileósatellite service shall not cause harmful interference to or constrain the development of the fixed and mobile services in Argentina, Brazil, Canada, Chile, Ecuador, the United States, Honduras, Jamaica, Mexico, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela.
- The use of the bands 2 01062 025 MHz and 2 16062 170 MHz in Region 2 by the mobileósatellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716** (Rev.WRC-2000). (WRC-07)
- The use of the bands 2 01062 025 MHz and 2 16062 170 MHz by the mobileósatellite service in Region 2 shall not cause harmful interference to, or constrain the development of, the fixed and mobile services in Regions 1 and 3.
- 389F In Algeria, Benin, Cape Verde, Egypt, Iran (Islamic Republic of), Mali, the Syrian Arab Republic and Tunisia, the use of the bands 1 98062 010 MHz and 2 17062 200 MHz by the mobileósatellite service shall neither cause harmful interference to the fixed and mobile services, nor hamper the development of those services prior to 1 January 2005, nor shall the former service request protection from the latter services.
- In making assignments to the mobile service in the bands 2 02562 110 MHz and 2 20062 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-97)
- Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary-satellites, in the space research, space operations and Earth explorationó satellite services in the bands 2 025ó2 110 MHz and 2 200ó2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other

- space-to-space transmissions of those services and in those bands between geostationary and non-geostationary satellites.
- Additional allocation: in Canada, the United States, India and Mexico, the band 2 31062 360 MHz is also allocated to the broadcastingósatellite service (sound) and complementary terrestrial sound broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (Rev.WRC-03), with the exception of resolves 3 in regard to the limitation on broadcastingósatellite systems in the upper 25 MHz. (WRC-07)
- In the United States, the use of the band 2 30062 390 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. In Canada, the use of the band 2 36062 400 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. (WRC-07)
- In France and Turkey, the use of the band 2 31062 360 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service. (WRC-03)
- Space stations of the broadcastingósatellite service in the band 2 3106 2 360 MHz operating in accordance with No. **393** that may affect the services to which this band is allocated in other countries shall be coordinated and notified in accordance with Resolution **33** (Rev.WRC-03). Complementary terrestrial broadcasting stations shall be subject to bilateral coordination with neighbouring countries prior to their bringing into use. (WRC-03)
- In respect of the radiodetermination of satellite service in the band 2 483.56 2 500 MHz, the provisions of No. **4.10** do not apply.
- 398A *Different category of service:* In Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, the band 2 483.562 500 MHz is allocated on a primary basis to the radiolocation service. The radiolocation stations in these countries shall not cause harmful interference to, or claim protection from, stations of the fixed, mobile and mobileósatellite services operating in accordance with the Radio Regulations in the frequency band 2 483.562 500 MHz. (WRC-12)
- Except for cases referred to in No. 118B, stations of the radiodetermination satellite service operating in the frequency band 2 483.562 500 MHz for which notification information is received by the Bureau after 17 February 2012, and the service area of which includes Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, shall not cause harmful interference to, and shall not claim

protection from stations of the radiolocation service operating in these countries in accordance with No. 118A. (WRC-12)

- In Angola, Australia, Bangladesh, Burundi, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), Lebanon, Liberia, Libya, Madagascar, Mali, Pakistan, Papua New Guinea, Syrian Arab Republic, Dem. Rep. of the Congo, Sudan, Swaziland, Togo and Zambia, the band 2 483.562 500 MHz was already allocated on a primary basis to the radiodeterminationósatellite service before WRC-12, subject to agreement obtained under No. 9.21 from countries not listed in this provision. Systems in the radiodeterminationó satellite service for which complete coordination information has been received by the Radiocommunication Bureau before 18 February 2012 will retain their regulatory status, as of the date of receipt of the coordination request information. (WRC-12)
- The use of the band 2 483.562 500 MHz by the mobileósatellite and the radiodeterminationósatellite services is subject to the coordination under No. **9.11A**. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2 483.562 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 99065 000 MHz band allocated to the radio astronomy service worldwide.
- Subject to agreement obtained under No. **9.21**, the band 2 52062 535 MHz may also be used for the mobileósatellite (space-to-Earth), except aeronautical mobileósatellite, service for operation limited to within national boundaries. The provisions of No. **9.11A** apply. (WRC-07)
- 404 Additional allocation: in India and Iran (Islamic Republic of), the band 2 50062 516.5 MHz may also be used for the radiodeterminationósatellite service (space-to-Earth) for operation limited to within national boundaries, subject to agreement obtained under No. 9.21.
- In the band 2 50062 520 MHz, the power flux-density at the surface of the Earth from space stations operating in the mobileósatellite (space-to-Earth) service shall not exceed 152 dB(W/m²/4 kHz) in Argentina, unless otherwise agreed by the administrations concerned.
- The band 2 50062 690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. 9.21. No. 9.21 does not apply to tropospheric scatter links situated entirely outside Region 1. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to

avoid directing the antennas of these links towards the geostationary-satellite orbit. (WRC-12)

- Alternative allocation: in Kyrgyzstan and Turkmenistan, the band 2 5006 2 690 MHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- In the design of systems in the broadcastingósatellite service in the bands between 2 500 MHz and 2 690 MHz, administrations are urged to take all necessary steps to protect the radio astronomy service in the band 2 6906 2 700 MHz.
- The allocation of the frequency band 2 50062 520 MHz to the mobileó satellite service (space-to-Earth) is subject to coordination under No. 9.11A. (WRC-07)
- In Japan and India, the use of the bands 2 50062 520 MHz and 2 5206 2 535 MHz, under No. 403, by a satellite network in the mobileósatellite service (space-to-Earth) is limited to operation within national boundaries and subject to the application of No. 9.11A. The following pfd values shall be used as a threshold for coordination under No. 9.11A, for all conditions and for all methods of modulation, in an area of 1 000 km around the territory of the administration notifying the mobileósatellite service network:

136 dB(W/(m²·MHz))
 for
$$0^{\circ}$$
 Ö θ Ö 5°

 136 + 0.55 (θ 5)dB(W/(m²·MHz))
 for $5^{\circ} < \theta$ Ö 25°

 125 dB(W/(m²·MHz))
 for $25^{\circ} < \theta$ Ö 90°

where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. Outside this area Table 21–4 of Article 21 shall apply. Furthermore, the coordination thresholds in Table 562 of Annex 1 to Appendix 5 of the Radio Regulations (Edition of 2004), in conjunction with the applicable provisions of Articles 9 and 11 associated with No. 9.11A, shall apply to systems for which complete notification information has been received by the Radiocommunication Bureau by 14 November 2007 and that have been brought into use by that date. (WRC-07)

- The use of the bands 2 50062 690 MHz in Region 2 and 2 50062 535 MHz and 2 65562 690 MHz in Region 3 by the fixedósatellite service is limited to national and regional systems, subject to agreement obtained under No. **9.21**, giving particular attention to the broadcastingósatellite service in Region 1. (WRC-07)
- 415A Additional allocation: in India and Japan, subject to agreement obtained under No. 9.21, the band 251562535 MHz may also be used for the

aeronautical mobileósatellite service (space-to-Earth) for operation limited to within their national boundaries. (WRC-2000)

- The use of the band 2 52062 670 MHz by the broadcastingósatellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. 9.21. The provisions of No. 9.19 shall be applied by administrations in this band in their bilateral and multilateral negotiations. (WRC-07)
- In applying provision No. 418, in Korea (Rep. of) and Japan, resolves 3 of 417A Resolution 528 (Rev.WRC-03) is relaxed to allow the broadcastingósatellite service (sound) and the complementary terrestrial broadcasting service to additionally operate on a primary basis in the band 2 60562 630 MHz. This use is limited to systems intended for national coverage. An administration listed in this provision shall not have simultaneously two overlapping frequency assignments, one under this provision and the other under No. 416. The provisions of No. 416 and Table 21-4 of Article 21 do not apply. Use of non-geostationary-satellite systems in the broadcasting satellite service (sound) in the band 2 60562 630 MHz is subject to the provisions of Resolution 539 (Rev.WRC-03). The power flux-density at the Earthøs surface produced by emissions from a geostationary broadcastingósatellite service (sound) space station operating in the band 2 60562 630 MHz for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003, for all conditions and for all methods of modulation, shall not exceed the following limits:

| $130 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ | | for 0° Ö | Ö5° | |
|---|----------------------------|----------|-------------------|------|
| 130 + 0.4 (| 5) $dB(W/(m^2 \cdot MHz))$ | | for 5° < | Ö25° |
| $122 \text{ dB}(\text{W/(m}^2 \cdot \text{MHz}))$ | | | for 25° < | Ö90° |

where is the angle of arrival of the incident wave above the horizontal plane, in degrees. These limits may be exceeded on the territory of any country whose administration has so agreed. In the case of the broadcastingó satellite service (sound) networks of Korea (Rep. of), as an exception to the limits above, the power flux density value of 122 dB(W/(m²·MHz)) shall be used as a threshold for coordination under No. **9.11** in an area of 1 000 km around the territory of the administration notifying the broadcastingósatellite service (sound) system, for angles of arrival greater than 35°. (WRC-03)

In Korea (Rep. of) and Japan, use of the band 2 60562 630 MHz by nongeostationary-satellite systems in the broadcastingósatellite service (sound), pursuant to No. 417A, for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003, is subject to the application of the provisions of No. 9.12A, in respect of geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received after 4 July 2003, and No. 22.2 does not apply. No. 22.2 shall continue to apply with respect to geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received before 5 July 2003. (WRC-03)

- 417C Use of the band 2 60562 630 MHz by non-geostationary-satellite systems in the broadcastingósatellite service (sound), pursuant to No. 417A, for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003, is subject to the application of the provisions of No. 9.12. (WRC-03)
- 417D Use of the band 2 60562 630 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 4 July 2003 is subject to the application of the provisions of No. 9.13 with respect to non-geostationary-satellite systems in the broadcasting satellite service (sound), pursuant to No. 417A, and No. 22.2 does not apply. (WRC-03)
- Additional allocation: in Korea (Rep. of), India, Japan, and Thailand, the 418 band 2 53562 655 MHz is also allocated to the broadcastingósatellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (Rev.WRC-03). The provisions of No. 416 and Table 21–4 of Article 21, do not apply to this additional allocation. Use of non-geostationary-satellite systems in the broadcastingósatellite service (sound) is subject to Resolution 539 (Rev.WRC-03). Geostationary broadcastingósatellite service (sound) systems for which complete Appendix 4 coordination information has been received after 1 June 2005 are limited to systems intended for national coverage. The power flux-density at the Earthøs surface produced by emissions from a geostationary broadcastingósatellite service (sound) space station operating in the band 2 63062 655 MHz, and for which complete Appendix 4 coordination information has been received after 1 June 2005, shall not exceed the following limits, for all conditions and for all methods of modulation:

130 dB(W/(m²·MHz)) for
$$0^{\circ}$$
 Ö Ö5°
130 + 0.4 (5) dB(W/(m²·MHz)) for 5° < Ö25°
122 dB(W/(m²·MHz)) for 25° < Ö90°

where is the angle of arrival of the incident wave above the horizontal plane, in degrees. These limits may be exceeded on the territory of any country whose administration has so agreed. As an exception to the limits above, the pfd value of 122 dB(W/(m²·MHz)) shall be used as a threshold for coordination under No. **9.11** in an area of 1 500 km around the territory of the administration notifying the broadcastingósatellite service (sound) system. In addition, an administration listed in this provision shall not have simultaneously two overlapping frequency assignments, one under this provision and the other under No. **416** for systems for which complete Appendix **4** coordination information has been received after 1 June 2005. (WRC-12)

- In certain Region 3 countries listed in No. 418, use of the band 2 6306 2 655 MHz by non-geostationary-satellite systems in the broadcastingó satellite service (sound) for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. 9.12A, in respect of geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received after 2 June 2000, and No. 22.2 does not apply. No. 22.2 shall continue to apply with respect to geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, is considered to have been received before 3 June 2000. (WRC-03)
- Use of the band 2 63062 655 MHz by non-geostationary-satellite systems in the broadcastingósatellite service (sound), pursuant to No. 418, for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. 9.12. (WRC-03)
- 418C Use of the band 2 63062 655 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. 9.13 with respect to non-geostationary-satellite systems in the broadcasting satellite service (sound), pursuant to No. 418 and No. 22.2 does not apply. (WRC-03)
- When introducing systems of the mobileósatellite service in the band 2 6706 2 690 MHz, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobileósatellite systems in the band shall be in accordance with No. 9.11A. (WRC-07)
- The band 2 65562 670 MHz may also be used for the mobileósatellite (Earthto-space), except aeronautical mobileósatellite, service for operation limited to within national boundaries, subject to agreement obtained under No. 9.21. The coordination under No. 9.11A applies. (WRC-07)

- Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Brunei Darussalam, Congo (Rep. of the), Côte d'Ivoire, Cuba, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea, Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Mauritania, Mongolia, Montenegro, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, the Dem. Rep. of the Congo, Romania, Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine and Yemen, the band 2 69062 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-12)
- In the band 2 70062 900 MHz, ground-based radars used for meteorological purposes are authorised to operate on a basis of equality with stations of the aeronautical radionavigation service.
- 424 Additional allocation: in Canada, the band 2 85062 900 MHz is also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars.
- 424A In the band 2 90063 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
- In the band 2 90063 100 MHz, the use of the shipborne interrogator-transponder (SIT) system shall be confined to the sub-band 2 9306 2 950 MHz.
- The use of the band 2 90063 100 MHz by the aeronautical radionavigation service is limited to ground-based radars.
- In the bands 2 90063 100 MHz and 9 30069 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. **4.9.**
- 428 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan and Turkmenistan, the band 3 10063 300 MHz is also allocated to the radionavigation service on a primary basis. (WRC-12)
- 429 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Egypt, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya,

Malaysia, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People® Rep. of Korea and Yemen, the band 3 30063 400 MHz is also allocated to the fixed and mobile services on a primary basis. The countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-12)

- 430 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan and Turkmenistan, the band 3 30063 400 MHz is also allocated to the radionavigation service on a primary basis. (WRC-12)
- Different category of service: in Albania, Algeria, Germany, Andorra, Saudi 430A Arabia, Austria, Azerbaijan, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Cameroon, Cyprus, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Egypt, Spain, Estonia, Finland, France and French overseas departments and communities in Region 1, Gabon, Georgia, Greece, Guinea, Hungary, Ireland, Iceland, Israel, Italy, Jordan, Kuwait, Lesotho, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Malawi, Mali, Malta, Morocco. Mauritania, Moldova, Monaco, Mongolia. Montenegro. Mozambique, Namibia, Niger, Norway, Oman, Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Senegal, Serbia, Sierra Leone, Slovenia, South Africa, Sweden, Switzerland, Swaziland, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the band 3 40063 600 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis subject to agreement obtained under No. 9.21 with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed 154.5 dB(W/(m²·4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band

- 3 40063 600 MHz shall not claim more protection from space stations than that provided in Table **21–4** of the Radio Regulations (Edition of 2004). This allocation is effective from 17 November 2010. (WRC-12)
- 431 Additional allocation: in Germany, Israel and the United Kingdom, the band 3 40063 475 MHz is also allocated to the amateur service on a secondary basis. (WRC-03)
- 431A *Different category of service:* in Argentina, Brazil, Chile, Costa Rica, Cuba, Dominican Republic, El Salvador, Guatemala, Mexico, Paraguay, Suriname, Uruguay, Venezuela and French Overseas Departments and Communities in Region 2, the band 3 40063 500 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. **9.21**. Stations of the mobile service in the band 3 4006 3 500 MHz shall not claim more protection from space stations than that provided in Table **21–4** of the Radio Regulations (Edition of 2004). (WRC-07)
- Different category of service: in Korea (Rep. of), Japan and Pakistan, the allocation of the band 3 40063 500 MHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 33). (WRC-2000)
- 432A In Korea (Rep. of), Japan and Pakistan, the band 3 40063 500 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed 154.5 dB(W/(m²·4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station) with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 40063 500 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-07)

- 432B Different category of service: in Bangladesh, China, India, Iran (Islamic Republic of), New Zealand, Singapore and French Overseas Communities in Region 3, the band 3 40063 500 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. 9.21 with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed 154.5 dB(W/(m²·4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station) with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 40063 500 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). This allocation is effective from 17 November 2010. (WRC-07)
- In Regions 2 and 3, in the band 3 40063 600 MHz the radiolocation service is allocated on a primary basis. However, all administrations operating radiolocation systems in this band are urged to cease operations by 1985. Thereafter, administrations shall take all practicable steps to protect the fixedósatellite service and coordination requirements shall not be imposed on the fixedósatellite service.
- In Bangladesh, China, Korea (Rep. of), India, Iran (Islamic Republic of), Japan, New Zealand, Pakistan and French Overseas Communities in Region 3, the band 3 50063 600 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. 9.17 and 9.18 also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed 154.5 dB(W/(m²·4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be

exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the band 3 50063 600 MHz shall not claim more protection from space stations than that provided in Table 21–4 of the Radio Regulations (Edition of 2004). (WRC-07)

- In Japan, in the band 3 62063 700 MHz, the radiolocation service is excluded.
- Use of the band 4 20064 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. However, passive sensing in the Earth explorationósatellite and space research services may be authorised in this band on a secondary basis (no protection is provided by the radio altimeters).
- 439 Additional allocation: in Iran (Islamic Republic of), the band 4 2006 4 400 MHz is also allocated to the fixed service on a secondary basis. (WRC-
- The standard frequency and time signalósatellite service may be authorised to use the frequency 4 202 MHz for space-to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of ± 2 MHz of these frequencies, subject to agreement obtained under No. 9.21.
- In Region 2 (except Brazil, Cuba, French Overseas Departments and Communities, Guatemala, Paraguay, Uruguay and Venezuela), and in Australia, the band 4 40064 940 MHz may be used for aeronautical mobile telemetry for flight testing by aircraft stations (see No. 1.83). Such use shall be in accordance with Resolution 416 (WRC-07) and shall not cause harmful interference to, nor claim protection from, the fixedósatellite and fixed services. Any such use does not preclude the use of these bands by other mobile service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in the Radio Regulations. (WRC-07)

- 441 The use of the bands 4 50064 800 MHz (space-to-Earth), 6 72567 025 MHz (Earth-to-space) by the fixedósatellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7610.95 GHz (spaceto-Earth), 11.2611.45 GHz (space-to-Earth) and 12.75613.25 GHz (Earth-tospace) by geostationary-satellite systems in the fixedósatellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7610.95 GHz (space-to-Earth), 11.2611.45 GHz (space-to-Earth) and 12.75ó13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixedósatellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixedósatellite service. Non-geostationary-satellite systems in the fixedó satellite service shall not claim protection from geostationary-satellite networks in the fixedósatellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixedósatellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 43A does not apply. Nongeostationary-satellite systems in the fixedósatellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
- In the bands 4 82564 835 MHz and 4 95064 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Paraguay, Uruguay and Venezuela), and in Australia, the band 4 82564 835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for flight testing by aircraft stations. Such use shall be in accordance with Resolution 416 (WRC-07) and shall not cause harmful interference to the fixed service. (WRC-07)
- Different category of service: in Argentina, Australia and Canada, the allocation of the bands 4 82564 835 MHz and 4 95064 990 MHz to the radio astronomy service is on a primary basis (see No. 33).
- 443AA In the frequency bands 5 00065 030 MHz and 5 09165 150 MHz, the aeronautical mobileósatellite (R) service is subject to agreement obtained under No. 9.21. The use of these bands by the aeronautical mobileó satellite (R) service is limited to internationally standardized aeronautical systems.
- In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earthøs surface in the band 5 03065 150 MHz by all the space stations within any radionavigationósatellite service system (space-to-Earth) operating in the band 5 01065 030 MHz shall not exceed 124.5 dB(W/m²)

in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the band 4 99065 000 MHz, radionavigationósatellite service systems operating in the band 5 01065 030 MHz shall comply with the limits in the band 4 99065 000 MHz defined in Resolution 741 (Rev.WRC-12). (WRC-12)

- The use of the frequency band 5 03065 091 MHz by the aeronautical mobile (R) service is limited to internationally standardized aeronautical systems. Unwanted emissions from the aeronautical mobile (R) service in the frequency band 5 03065 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 01065 030 MHz band. Until such time that an appropriate value is established in a relevant ITU-R Recommendation, the e.i.r.p. density limit of 75 dBW/MHz in the frequency band 5 0106 5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC-12)
- 443D In the frequency band 5 03065 091 MHz, the aeronautical mobileó satellite (R) service is subject to coordination under No. 9.11A. The use of this frequency band by the aeronautical mobileósatellite (R) service is limited to internationally standardized aeronautical systems.
- The frequency band 5 03065 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision approach and landing. In the frequency band 5 03065 091 MHz, the requirements of this system shall have priority over other uses of this band. For the use of the frequency band 5 09165 150 MHz, No. 444A and Resolution 114 (Rev.WRC-12) apply. (WRC-12)
- 444A *Additional allocation:* the band 5 09165 150 MHz is also allocated to the fixedósatellite service (Earth-to-space) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobileó satellite service and is subject to coordination under No. **9.11A**.

In the band 5 09165 150 MHz, the following conditions also apply:

- prior to 1 January 2018, the use of the band 5 09165 150 MHz by feeder links of non-geostationary-satellite systems in the mobileó satellite service shall be made in accordance with Resolution 114 (Rev.WRC-03);
- after 1 January 2016, no new assignments shall be made to earth stations providing feeder links of non-geostationary mobileó satellite systems;
- after 1 January 2018, the fixedósatellite service will become secondary to the aeronautical radionavigation service. (WRC-07)

- The use of the frequency band 5 09165 150 MHz by the aeronautical mobile service is limited to:
 - systems operating in the aeronautical mobile (R) service and in accordance with international aeronautical standards, limited to surface applications at airports. Such use shall be in accordance with Resolution 748 (WRC-12);
 - aeronautical telemetry transmissions from aircraft stations (see No. 1.83) in accordance with Resolution 418 (WRC-12);
- Additional allocation: in the countries listed in No. 369, the band 5 1506 5 216 MHz is also allocated to the radiodeterminationósatellite service (space-to-Earth) on a primary basis, subject to agreement obtained under No. 9.21. In Region 2, the band is also allocated to the radiodeterminationó satellite service (space-to-Earth) on a primary basis. In Regions 1 and 3, except those countries listed in No. 369 and Bangladesh, the band is also allocated to the radiodeterminationósatellite service (space-to-Earth) on a secondary basis. The use by the radiodeterminationósatellite service is limited to feeder links in conjunction with the radiodeterminationósatellite service operating in the bands 1 61061 626.5 MHz and/or 2 483.56 2 500 MHz. The total power flux-density at the Earthos surface shall in no case exceed 159 dB(W/m²) in any 4 kHz band for all angles of arrival. (WRC-12)
- The use of the bands 5 15065 350 MHz and 5 47065 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution 229 (Rev.WRC-12). (WRC-12)
- In the band 5 15065 250 MHz, stations in the mobile service shall not claim protection from Earth stations in the fixedósatellite service. No. **43A** does not apply to the mobile service with respect to fixedósatellite service Earth stations. (WRC-03)
- 446C Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan, South Sudan and Tunisia) and in Brazil, the band 5 15065 250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (WRC-07). These stations shall not claim protection from other stations operating in accordance with Article 5. No. 43A does not apply. (WRC-12)
- 447 Additional allocation: in Côte d'Ivoire, Egypt, Israel, Lebanon, the Syrian Arab Republic and Tunisia, the band 5 15065 250 MHz is also allocated to

the mobile service, on a primary basis, subject to agreement obtained under No. 9.21. In this case, the provisions of Resolution 229 (Rev.WRC-12) do not apply. (WRC-12)

- The allocation to the fixedósatellite service (Earth-to-space) is limited to feeder links of non-geostationary-satellite systems in the mobileósatellite service and is subject to coordination under No. **9.11A**.
- 447B Additional allocation: the band 5 15065 216 MHz is also allocated to the fixedósatellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobileó satellite service and is subject to provisions of No. 9.11A. The power flux-density at the Earth's surface produced by space stations of the fixedósatellite service operating in the space-to-Earth direction in the band 5 1506 5 216 MHz shall in no case exceed 164 dB(W/m²) in any 4 kHz band for all angles of arrival.
- Administrations responsible for fixedósatellite service networks in the band 5 15065 250 MHz operated under Nos. 447A and 447B shall coordinate on an equal basis in accordance with No. 9.11A with Administrations responsible for non-geostationary-satellite networks operated under No. 446 and brought into use prior to 17 November 1995. Satellite networks operated under No. 446 brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixedósatellite service operated under Nos. 447A and 447B.
- The allocation of the band 5 25065 255 MHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis.
- 447E Additional allocation: The band 5 25065 350 MHz is also allocated to the fixed service on a primary basis in the following countries in Region 3: Australia, Korea (Rep. of), India, Indonesia, Iran (Islamic Republic of), Japan, Malaysia, Papua New Guinea, the Philippines, Dem. People Rep. of Korea, Sri Lanka, Thailand and Viet Nam. The use of this band by the fixed service is intended for the implementation of fixed wireless access systems and shall comply with Recommendation ITU-R F.1613. In addition, the fixed service shall not claim protection from the radiodetermination, Earth explorationósatellite (active) and space research (active) services, but the provisions of No. 43A do not apply to the fixed service with respect to the Earth explorationósatellite (active) and space research (active) services. After implementation of fixed wireless access systems in the fixed service with protection for the existing radiodetermination systems, no more stringent constraints should be imposed on the fixed wireless access systems by future radiodetermination implementations. (WRC-07)

- In the band 5 25065 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth explorationósatellite (active) service and the space research (active) service. These services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendations ITU-R M.1638 and ITU-R RS.1632. (WRC-03)
- 448 Additional allocation: in Azerbaijan, Kyrgyzstan, Romania and Turkmenistan, the band 5 25065 350 MHz is also allocated to the radionavigation service on a primary basis. (WRC-12)
- The Earth explorationósatellite (active) and space research (active) services in the frequency band 5 25065 350 MHz shall not claim protection from the radiolocation service. No. **43A** does not apply. (WRC-03)
- The Earth explorationósatellite service (active) operating in the band 5 3506 5 570 MHz and space research service (active) operating in the band 5 4606 5 570 MHz shall not cause harmful interference to the aeronautical radionavigation service in the band 5 35065 460 MHz, the radionavigation service in the band 5 46065 470 MHz and the maritime radionavigation service in the band 5 47065 570 MHz. (WRC-03)
- The space research service (active) operating in the band 5 35065 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03)
- 448D In the frequency band 5 35065 470 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the aeronautical radionavigation service operating in accordance with No. 449. (WRC-03)
- The use of the band 5 35065 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.
- 450 Additional allocation: in Austria, Azerbaijan, Iran (Islamic Republic of), Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 5 4706 5 650 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)
- In the band 5 47065 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. Radiodetermination services shall not impose on the mobile service more stringent protection criteria, based on system characteristics and interference criteria, than those stated in Recommendation ITU-R M.1638. (WRC-03)

- 450B In the frequency band 5 47065 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 60065 650 MHz, shall not cause harmful interference to, nor claim protection from, radar systems in the maritime radionavigation service. (WRC-03)
- Additional allocation: in the United Kingdom, the band 5 47065 850 MHz is also allocated to the land mobile service on a secondary basis. The power limits specified in Nos. 21.2, 21.3, 21.4 and 21.5 shall apply in the band 5 72565 850 MHz.
- Between 5 600 MHz and 5 650 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the maritime radionavigation service.
- Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte dølvoire, Djibouti, Egypt, the United Arab Emirates, Gabon, Guinea, Equatorial Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Madagascar, Malaysia, Niger, Nigeria, Oman, Uganda, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People® Rep. of Korea, Singapore, Sri Lanka, Swaziland, Tanzania, Chad, Thailand, Togo, Viet Nam and Yemen, the band 5 65065 850 MHz is also allocated to the fixed and mobile services on a primary basis. In this case, the provisions of Resolution 229 (Rev.WRC-12) do not apply. (WRC-12)
- Different category of service: in Azerbaijan, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 5 67065 725 MHz to the space research service is on a primary basis (see No. 33). (WRC-12)
- Additional allocation: in Armenia, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 5 6706 5 850 MHz is also allocated to the fixed service on a primary basis. (WRC-07)
- Additional allocation: in Cameroon, the band 5 75565 850 MHz is also allocated to the fixed service on a primary basis. (WRC-03)
- In Australia, Burkina Faso, Cote d'Ivoire, Mali and Nigeria, the allocation to the fixed service in the bands 6 44066 520 MHz (HAPS-to-ground direction) and 6 56066 640 MHz (ground-to-HAPS direction) may also be used by gateway links for high-altitude platform stations (HAPS) within the territory

of these countries. Such use is limited to operation in HAPS gateway links and shall not cause harmful interference to, and shall not claim protection from, existing services, and shall be in compliance with Resolution 150 (WRC-12). Existing services shall not be constrained in future development by HAPS gateway links. The use of HAPS gateway links in these bands requires explicit agreement with other administrations whose territories are located within 1 000 kilometres from the border of an administration intending to use the HAPS gateway links.

- 457A In the bands 5 92566 425 MHz and 14614.5 GHz, Earth stations located on board vessels may communicate with space stations of the fixedósatellite service. Such use shall be in accordance with Resolution 902 (WRC-03). (WRC-03)
- In the bands 5 92566 425 MHz and 14614.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution 902 (WRC-03) in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Jordan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, South Sudan, Tunisia and Yemen, in the maritime mobileósatellite service on a secondary basis. Such use shall be in accordance with Resolution 902 (WRC-03). (WRC-12)
- In Region 2 (except Brazil, Cuba, French Overseas Departments and Communities, Guatemala, Paraguay, Uruguay and Venezuela), the band 5 92566 700 MHz may be used for aeronautical mobile telemetry for flight testing by aircraft stations (see No. 1.83). Such use shall be in accordance with Resolution 416 (WRC-07) and shall not cause harmful interference to, nor claim protection from, the fixedósatellite and fixed services. Any such use does not preclude the use of these bands by other mobile service applications or by other services to which these bands are allocated on a coprimary basis and does not establish priority in the Radio Regulations. (WRC-07)
- In the band 6 42567 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 07567 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth explorationósatellite (passive) and space research (passive) services in their future planning of the bands 6 4256 7 025 MHz and 7 07567 250 MHz.
- 458A In making assignments in the band 6 70067 075 MHz to space stations of the fixedósatellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the

band 6 65066 675.2 MHz from harmful interference from unwanted emissions.

- The space-to-Earth allocation to the fixedósatellite service in the band 6 7006 7 075 MHz is limited to feeder links for non-geostationary-satellite systems of the mobileósatellite service and is subject to coordination under No. 9.11A. The use of the band 6 70067 075 MHz (space-to-Earth) by feeder links for non-geostationary-satellite systems in the mobileósatellite service is not subject to No. 22.2.
- Administrations making submissions in the band 7 02567 075 MHz (Earth-to-space) for geostationary-satellite systems in the fixedósatellite service after 17 November 1995 shall consult on the basis of relevant ITU-R Recommendations with the administrations that have notified and brought into use non-geostationary-satellite systems in this frequency band before 18 November 1995 upon request of the latter administrations. This consultation shall be with a view to facilitating shared operation of both geostationary-satellite systems in the fixedósatellite service and non-geostationary-satellite systems in this band.
- 459 Additional allocation: in the Russian Federation, the frequency bands 7 10067 155 MHz and 7 19067 235 MHz are also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. 9.21. (WRC-97)
- The use of the band 7 14567 190 MHz by the space research service (Earth-to-space) is restricted to deep space; no emissions to deep space shall be effected in the band 7 19067 235 MHz. Geostationary-satellites in the space research service operating in the band 7 19067 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and No. **43A** does not apply. (WRC-03)
- 461 Additional allocation: the bands 7 25067 375 MHz (space-to-Earth) and 7 90068 025 MHz (Earth-to-space) are also allocated to the mobileósatellite service on a primary basis, subject to agreement obtained under No. 9.21.
- 461A The use of the band 7 45067 550 MHz by the meteorologicalósatellite service (space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary meteorologicalósatellite systems in this band notified before 30 November 1997 may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
- The use of the band 7 75067 900 MHz by the meteorologicalósatellite service (space-to-Earth) is limited to non-geostationary-satellite systems. (WRC-12)

462A In Regions 1 and 3 (except for Japan), in the band 8 02568 400 MHz, the Earth explorationósatellite service using geostationary-satellites shall not produce a power flux-density in excess of the following values for angles of arrival (θ), without the consent of the affected administration:

 $\begin{array}{lll} 135 \; dB(W/m^2) \; in \; a \; 1 \; MHz \; band & for \; 0^\circ \; \ddot{O}\theta < 5^\circ \\ 135 + 0.5 \; (\theta \quad 5) \; dB(W/m^2) \; in \; a \; 1 \; MHz \; band & for \; 5^\circ \; \ddot{O}\theta < 25^\circ \\ 125 \; dB(W/m^2) \; in \; a \; 1 \; MHz \; band & for \; 25^\circ \; \ddot{O}\theta \; \ddot{O}90^\circ \end{array}$

- Aircraft stations are not permitted to transmit in the band 8 0256 8 400 MHz. (WRC-97)
- In the space research service, the use of the band 8 40068 450 MHz is limited to deep space.
- Different category of service: in Singapore and Sri Lanka, the allocation of the band 8 40068 500 MHz to the space research service is on a secondary basis (see No. 32). (WRC-12)
- Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burundi, Cameroon, China, Congo (Rep. of the), Costa Rica, Djibouti, Egypt, the United Arab Emirates, Gabon, Guyana, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. Peoples Rep. of Korea, Senegal, Singapore, Somalia, Sudan, Swaziland, Tanzania, Chad, Togo, Tunisia and Yemen, the band 8 50068 750 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- Additional allocation: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Lithuania, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the band 8 500ó8 750 MHz is also allocated to the land mobile and radionavigation services on a primary basis. (WRC-12)
- 469A In the band 8 55068 650 MHz, stations in the Earth explorationósatellite service (active) and space research service (active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. (WRC-97)
- The use of the band 8 75068 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.

- 471 Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, Egypt, the United Arab Emirates, France, Greece, Indonesia, Iran (Islamic Republic of), Libya, the Netherlands, Qatar, Sudan and South Sudan, the bands 8 82568 850 MHz and 9 00069 200 MHz are also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars only. (WRC-12)
- In the bands 8 85069 000 MHz and 9 20069 225 MHz, the maritime radionavigation service is limited to shore-based radars.
- Additional allocation: in Armenia, Austria, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the bands 8 85069 000 MHz and 9 20069 300 MHz are also allocated to the radionavigation service on a primary basis. (WRC-07)
- 473A In the band 9 00069 200 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, systems identified in No. 337 operating in the aeronautical radionavigation service, or radar systems in the maritime radionavigation service operating in this band on a primary basis in the countries listed in No. 471. (WRC-07)
- In the band 9 20069 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article 31).
- The use of the band 9 30069 500 MHz by the aeronautical radionavigation service is limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the band 9 30069 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
- 475A The use of the band 9 30069 500 MHz by the Earth explorationósatellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz than cannot be fully accommodated within the 9 50069 800 MHz band. (WRC-07)
- 475B In the band 9 30069 500 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, radars operating in the radionavigation service in conformity with the Radio Regulations. Ground-based radars used for meteorological purposes have priority over other radiolocation uses. (WRC-07)

- 476A In the band 9 30069 800 MHz, stations in the Earth explorationósatellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from, stations of the radionavigation and radiolocation services. (WRC-07)
- Different category of service: in Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Japan, Jordan, Kuwait, Lebanon, Liberia, Malaysia, Nigeria, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. People Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Trinidad and Tobago, and Yemen, the allocation of the band 9 800610 000 MHz to the fixed service is on a primary basis (see No. 33). (WRC-12)
- 478 Additional allocation: in Azerbaijan, Mongolia, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 9 800ó10 000 MHz is also allocated to the radionavigation service on a primary basis. (WRC-07)
- 478A The use of the band 9 80069 900 MHz by the Earth explorationósatellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated within the 9 30069 800 MHz band. (WRC-07)
- 478B In the band 9 80069 900 MHz, stations in the Earth explorationósatellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from stations of the fixed service to which this band is allocated on a secondary basis. (WRC-07)
- The band 9 975610 025 MHz is also allocated to the meteorologicalósatellite service on a secondary basis for use by weather radars.
- 480 Additional allocation: in Argentina, Brazil, Chile, Costa Rica, Cuba, El Salvador, Ecuador, Guatemala, Honduras, Mexico, Paraguay, the Netherlands Antilles, Peru and Uruguay, the band 10610.45 GHz is also allocated to the fixed and mobile services on a primary basis. In Venezuela, the band 10610.45 GHz is also allocated to the fixed service on a primary basis. (WRC-07)
- Additional allocation: in Germany, Angola, Brazil, China, Costa Rica, Côte d'Ivoire, El Salvador, Ecuador, Spain, Guatemala, Hungary, Japan, Kenya, Morocco, Nigeria, Oman, Uzbekistan, Pakistan, Paraguay, Peru, the Dem. Peopleøs Rep. of Korea, Romania, Tanzania, Thailand and Uruguay, the band 10.45610.5 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)

- In the band 10.6610.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed 3 dBW. This limit may be exceeded, subject to agreement obtained under No. 9.21. However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic Republic of), Iraq, Jordan, Libyan Arab Jamahiriya, Kazakhstan, Kuwait, Lebanon, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan, Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan, Tunisia, Turkmenistan, and Viet Nam, this restriction on the fixed and mobile, except aeronautical mobile, services is not applicable. (WRC-07)
- 482A For sharing of the band 10.6610.68 GHz between the Earth explorationó satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution 751 (WRC-07) applies. (WRC-07)
- Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, China, Colombia, Korea (Rep. of), Costa Rica, Egypt, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, Mongolia, Qatar, Kyrgyzstan, the Dem. Peoples Rep. of Korea, Tajikistan, Turkmenistan and Yemen, the band 10.68610.7 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-12)
- In Region 1, the use of the band 10.7611.7 GHz by the fixedósatellite service (Earth-to-space) is limited to feeder links for the broadcastingósatellite service.
- The use of the bands 10.95611.2 GHz (space-to-Earth), 11.45611.7 GHz 484A (space-to-Earth), 11.7612.2 GHz (space-to-Earth) in Region 2, 12.26 12.75 GHz (space-to-Earth) in Region 3, 12.5ó12.75 GHz (space-to-Earth) in Region 1, 13.75ó14.5 GHz (Earth-to-space), 17.8ó18.6 GHz (space-to-Earth), 19.7620.2 GHz (space-to-Earth), 27.5628.6 GHz (Earth-to-space), 29.5ó30 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixedósatellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixedó satellite service. Non-geostationary-satellite systems in the fixedósatellite service shall not claim protection from geostationary-satellite networks in the fixedósatellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the nongeostationary-satellite systems in the fixedósatellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 43A does not apply. Non-

geostationary-satellite systems in the fixedósatellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- In Region 2, in the band 11.7ó12.2 GHz, transponders on space stations in the fixedósatellite service may be used additionally for transmissions in the broadcastingósatellite service, provided that such transmissions do not have a maximum e.i.r.p. greater than 53 dBW per television channel and do not cause greater interference or require more protection from interference than the coordinated fixedósatellite service frequency assignments. With respect to the space services, this band shall be used principally for the fixedó satellite service.
- Different category of service: in Mexico and the United States, the allocation of the band 11.7612.1 GHz to the fixed service is on a secondary basis (see No. 32).
- In the band 11.7612.5 GHz in Regions 1 and 3, the fixed, fixedósatellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcastingósatellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)
- 487A Additional allocation: in Region 1, the band 11.7612.5 GHz, in Region 2, the band 12.2612.7 GHz and, in Region 3, the band 11.7612.2 GHz, are also allocated to the fixedósatellite service (space-to-Earth) on a primary basis, limited to non-geostationary systems and subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixedósatellite service. Non-geostationary-satellite systems in the fixedósatellite service shall not claim protection from geostationarysatellite networks in the broadcastingósatellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary satellite systems in the fixedósatellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 43A does not apply. Non-geostationary-satellite systems in the fixedósatellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
- The use of the band 11.7612.2 GHz by geostationary-satellite networks in the fixedósatellite service in Region 2 is subject to application of the provisions of No. **9.14** for coordination with stations of terrestrial services in Regions 1,

- 2 and 3. For the use of the band 12.2612.7 GHz by the broadcastingósatellite service in Region 2, see Appendix **30**. (WRC-03)
- 489 *Additional allocation:* in Peru, the band 12.1612.2 GHz is also allocated to the fixed service on a primary basis.
- In Region 2, in the band 12.2612.7 GHz, existing and future terrestrial radiocommunications services shall not cause harmful interference to the space services operating in conformity with the Broadcastingósatellite Plan for Region 2 contained in Appendix 30.
- Assignments to stations of the broadcastingósatellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix 30 may also be used for transmissions in the fixedó satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcastingósatellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
- The broadcastingósatellite service in the band 12.5ó12.75 GHz in Region 3 is limited to a power flux-density not exceeding 111 dB(W/(m²·27 MHz)) for all conditions and for all methods of modulation at the edge of the service area. (WRC-97)
- 494 Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte dolvoire, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Madagascar, Mali, Morocco, Mongolia, Nigeria, Oman, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the band 12.5ó12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- 495 Additional allocation: in France, Greece, Monaco, Montenegro, Uganda, Romania, Tanzania and Tunisia, the band 12.5ó12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-12)
- 496 Additional allocation: in Austria, Azerbaijan, Kyrgyzstan and Turkmenistan, the band 12.5ó12.75 GHz is also allocated to the fixed service and the mobile, except aeronautical mobile, service on a primary basis. However, stations in these services shall not cause harmful interference to fixedó satellite service Earth stations of countries in Region 1 other than those listed in this footnote. Coordination of these Earth stations is not required with stations of the fixed and mobile services of the countries listed in this

- footnote. The power flux-density limit at the Earth's surface given in Table 21–4 of Article 21, for the fixedósatellite service shall apply on the territory of the countries listed in this footnote. (WRC-2000)
- The use of the band 13.25613.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
- 498A The Earth explorationósatellite (active) and space research (active) services operating in the band 13.25ó13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
- 499 Additional allocation: in Bangladesh and India, the band 13.25614 GHz is also allocated to the fixed service on a primary basis. In Pakistan, the band 13.25613.75 GHz is allocated to the fixed service on a primary basis. (WRC-12)
- Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Morocco, Mauritania, Niger, Nigeria, Oman, Qatar, the Syrian Arab Republic, Singapore, Sudan, South Sudan, Chad and Tunisia, the band 13.4614 GHz is also allocated to the fixed and mobile services on a primary basis. In Pakistan, the band 13.4613.75 GHz is also allocated to the fixed and mobile services on a primary basis. (wRC-12)
- 501 Additional allocation: in Azerbaijan, Hungary, Japan, Kyrgyzstan, Romania and Turkmenistan, the band 13.4614 GHz is also allocated to the radionavigation service on a primary basis. (WRC-12)
- 501A The allocation of the band 13.4613.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
- 501B In the band 13.4613.75 GHz, the Earth explorationósatellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
- In the band 13.75ó14 GHz, an Earth station of a geostationary fixedósatellite service network shall have a minimum antenna diameter of 1.2 m and an Earth station of a non-geostationary fixedósatellite service system shall have a minimum antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation or radionavigation services shall not exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before an administration brings into use an Earth station in a

geostationary-satellite network in the fixedósatellite service in this band with an antenna diameter smaller than 4.5 m, it shall ensure that the power flux-density produced by this Earth station does not exceed:

- 115 dB(W/(m²·10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognised by the coastal State;
- 115 dB(W/(m²·10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained.

For Earth stations within the fixedósatellite service having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)

- In the band 13.75ó14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the fixedósatellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band:
 - in the band 13.77613.78 GHz, the e.i.r.p. density of emissions from any Earth station in the fixedósatellite service operating with a space station in geostationary-satellite orbit shall not exceed:
 - i) 4.7D + 28 dB(W/40 kHz), where D is the fixedósatellite service Earth station antenna diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m;
 - ii) $49.2 + 20 \log(D/4.5) dB(W/40 kHz)$, where *D* is the fixedó satellite service Earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m;
 - iii) 66.2 dB(W/40 kHz) for any fixedósatellite service Earth station for antenna diameters (m) equal to or greater than 31.9 m;
 - iv) 56.2 dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed satellite service Earth station emissions from any fixedósatellite service Earth station having an antenna diameter of 4.5 m or greater;
 - the e.i.r.p. density of emissions from any Earth station in the fixedó satellite service operating with a space station in non-geostationary-

satellite orbit shall not exceed 51 dBW in the 6 MHz band from 13.772 to 13.778 GHz.

Automatic power control may be used to increase the e.i.r.p. density in these frequency ranges to compensate for rain attenuation, to the extent that the power flux-density at the fixedósatellite service space station does not exceed the value resulting from use by an Earth station of an e.i.r.p. meeting the above limits in clear-sky conditions. (WRC-03)

- The use of the band 14ó14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixedósatellite service.
- 504A In the band 14ó14.5 GHz, aircraft Earth stations in the secondary aeronautical mobileósatellite service may also communicate with space stations in the fixedósatellite service. The provisions of Nos. 29, 30 and 31 apply. (WRC-03)
- Aircraft Earth stations operating in the aeronautical mobileósatellite service in the band 14ó14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47ó14.5 GHz band located on the territory of Spain, France, India, Italy, the United Kingdom and South Africa. (WRC-03)
- In the band 14ó14.25 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Côte dolvoire, Egypt, Guinea, India, Iran (Islamic Republic of), Kuwait, Nigeria, Oman, the Syrian Arab Republic and Tunisia by any aircraft earth station in the aeronautical mobileó satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobileósatellite service to operate as a secondary service in accordance with No. 29. (WRC-12)
- Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Botswana, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Djibouti, Egypt, the United Arab Emirates, Gabon, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Oman, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Peopleøs Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Swaziland, Tanzania, Chad, Viet Nam and Yemen, the band 14614.3 GHz is also allocated to the fixed service on a primary basis. (WRC-12)

- The band 14614.5 GHz may be used, within the fixedósatellite service (Earth-to-space), for feeder links for the broadcastingósatellite service, subject to coordination with other networks in the fixedósatellite service. Such use of feeder links is reserved for countries outside Europe.
- In the band 14614.5 GHz, ship Earth stations with an e.i.r.p. greater than 21 dBW shall operate under the same conditions as Earth stations located on board vessels, as provided in Resolution 902 (WRC-03). This footnote shall not apply to ship Earth stations for which the complete Appendix 4 information has been received by the Bureau prior to 5 July 2003. (WRC-03)
- Earth stations located on board vessels communicating with space stations in the fixedósatellite service may operate in the frequency band 14ó14.5 GHz without the need for prior agreement from Cyprus, Greece and Malta, within the minimum distance given in Resolution 902 (WRC-03) from these countries. (WRC-03)
- Additional allocation: in Germany, France, Italy, Libya, The Former Yugoslav Rep. of Macedonia and the United Kingdom, the band 14.256 14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-12)
- In the band 14.25ó14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, China, Côte dolvoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobileósatellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobileósatellite service to operate as a secondary service in accordance with No. 29. (WRC-12)
- In the band 14.3614.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Botswana, Cameroon, China, Côte dolvoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobileósatellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobileó satellite service to operate as a secondary service in accordance with No. 29. (WRC-12)

- The use of the band 14.5614.8 GHz by the fixedósatellite service (Earth-to-space) is limited to feeder links for the broadcastingósatellite service. This use is reserved for countries outside Europe.
- Additional allocation: in Saudi Arabia, Bahrain, Cameroon, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, Kuwait, Lebanon, Oman, Pakistan, Qatar, the Syrian Arab Republic and Somalia, the band 15.35615.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)
- 511A The band 15.43ó15.63 GHz is also allocated to the fixedósatellite service (space-to-Earth) on a primary basis. Use of the band 15.43615.63 GHz by the fixedósatellite service (space-to-Earth and Earth-to-space) is limited to feeder links of non-geostationary systems in the mobileósatellite service, subject to coordination under No. 9.11A. The use of the frequency band 15.436 15.63 GHz by the fixedósatellite service (space-to-Earth) is limited to feeder links of non-geostationary systems in the mobileósatellite service for which advance publication information has been received by the Bureau prior to 2 June 2000. In the space-to-Earth direction, the minimum Earth station elevation angle above and gain towards the local horizontal plane and the minimum coordination distances to protect an Earth station from harmful interference shall be in accordance with Recommendation ITU-R S.1341. In order to protect the radio astronomy service in the band 15.35\(\delta\)15.4 GHz, the aggregate power flux-density radiated in the 15.35ó15.4 GHz band by all the space stations within any feeder-link of a non-geostationary system in the mobileósatellite service (space-to-Earth) operating in the 15.43ó15.63 GHz band shall not exceed the level of 156 dB(W/m²) in a 50 MHz bandwidth, into any radio astronomy observatory site for more than 2% of the time. (WRC-2000)
- 511C Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340. The minimum coordination distance required to protect the aeronautical radionavigation stations (No. **4.10** applies) from harmful interference from feeder-link Earth stations and the maximum e.i.r.p. transmitted towards the local horizontal plane by a feeder-link Earth station shall be in accordance with Recommendation ITU-R S.1340. (WRC-97)
- Fixedósatellite service systems for which complete information for advance publication has been received by the Bureau by 21 November 1997 may operate in the bands 15.4ó15.43 GHz and 15.63ó15.7 GHz in the space-to-Earth direction and 15.63ó15.65 GHz in the Earth-to-space direction. In the bands 15.4ó15.43 GHz and 15.65ó15.7 GHz, emissions from a non-geostationary space station shall not exceed the power flux-density limits at the Earth's surface of 146 dB(W/(m²·MHz)) for any angle of arrival. In the

band 15.63ó15.65 GHz, where an administration plans emissions from a non-geostationary space station that exceed 146 dB(W/(m²·MHz)) for any angle of arrival, it shall coordinate under No. 9.11A with the affected administrations. Stations in the fixedósatellite service operating in the band 15.63ó15.65 GHz in the Earth-to-space direction shall not cause harmful interference to stations in the aeronautical radionavigation service (No. 4.10 applies). (WRC-97)

- In the frequency band 15.4615.7 GHz, stations operating in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the aeronautical radionavigation service.
- In order to protect the radio astronomy service in the frequency band 15.356 15.4 GHz, radiolocation stations operating in the frequency band 15.46 15.7 GHz shall not exceed the power flux-density level of 156 dB(W/m²) in a 50 MHz bandwidth in the frequency band 15.35615.4 GHz, at any radio astronomy observatory site for more than 2 per cent of the time.
- Additional allocation: in Algeria, Angola, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Congo (Rep. of the), Costa Rica, Egypt, El Salvador, the United Arab Emirates, Eritrea, Finland, Guatemala, India, Indonesia, Iran (Islamic Republic of), Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Montenegro, Nepal, Nicaragua, Niger, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. Rep. of the Congo, Serbia, Singapore, Somalia, Sudan, South Sudan, Tanzania, Chad, Togo and Yemen, the band 15.7617.3 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- 513 Additional allocation: in Israel, the band 15.7617.3 GHz is also allocated to the fixed and mobile services on a primary basis. These services shall not claim protection from or cause harmful interference to services operating in accordance with the Table in countries other than those included in No. 512.
- 513A Spaceborne active sensors operating in the band 17.2617.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)
- Additional allocation: in Algeria, Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, El Salvador, the United Arab Emirates, Guatemala, India, Iran (Islamic Republic of), Iraq, Israel, Italy, Japan, Jordan, Kuwait, Libya, Lithuania, Nepal, Nicaragua, Nigeria, Oman, Uzbekistan, Pakistan, Qatar, Kyrgyzstan, Sudan and South Sudan, the band 17.3617.7 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits given in Nos. 21.3 and 21.5 shall apply. (WRC-12)

- In the band 17.3ó17.8 GHz, sharing between the fixedósatellite service (Earth-to-space) and the broadcastingósatellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix 30A.
- 516 The use of the band 17.3ó18.1 GHz by geostationary-satellite systems in the fixedósatellite service (Earth-to-space) is limited to feeder links for the broadcastingósatellite service. The use of the band 17.3ó17.8 GHz in Region 2 by systems in the fixedósatellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3617.8 GHz in Region 2 by feeder links for the broadcastingósatellite service in the band 12.2612.7 GHz, see Article 11. The use of the bands 17.3618.1 GHz (Earthto-space) in Regions 1 and 3 and 17.8ó18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixedósatellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixedósatellite service. Nongeostationary-satellite systems in the fixedósatellite service shall not claim protection from geostationary-satellite networks in the fixedósatellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixedósatellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 43A does not apply. Non-geostationary-satellite systems in the fixedó satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
- In the band 17.3ó17.7 GHz, Earth stations of the fixedósatellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcastingósatellite service feeder-link Earth stations operating under Appendix 30A, nor put any limitations or restrictions on the locations of the broadcastingósatellite service feeder-link Earth stations anywhere within the service area of the feeder link. (WRC-03)
- The following bands are identified for use by high-density applications in the fixedósatellite service:

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17.3617.7 GHz
                        (space-to-Earth) in Region 1,
                        (space-to-Earth) in Region 2,
18.3619.3 GHz
19.7620.2 GHz
                        (space-to-Earth) in all Regions,
39.5ó40 GHz
                        (space-to-Earth) in Region 1,
40ó40.5 GHz
                        (space-to-Earth) in all Regions,
                        (space-to-Earth) in Region 2,
40.5ó42 GHz
47.5ó47.9 GHz
                        (space-to-Earth) in Region 1,
                        (space-to-Earth) in Region 1,
48.2648.54 GHz
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| 49.44650.2 GHz | (space-to-Earth) in Region 1, |
|-----------------|--------------------------------------|
| and | |
| 27.5627.82 GHz | (Earth-to-space) in Region 1, |
| 28.35ó28.45 GHz | (Earth-to-space) in Region 2, |
| 28.45ó28.94 GHz | (Earth-to-space) in all Regions, |
| 28.94629.1 GHz | (Earth-to-space) in Regions 2 and 3, |
| 29.25629.46 GHz | (Earth-to-space) in Region 2, |
| 29.46ó30 GHz | (Earth-to-space) in all Regions, |
| 48.2650.2 GHz | (Earth-to-space) in Region 2. |

This identification does not preclude the use of these bands by other fixedó satellite service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in these Radio Regulations among users of the bands. Administrations should take this into account when considering regulatory provisions in relation to these bands. See Resolution **143** (Rev.WRC-07). (WRC-03)

- In Region 2, use of the fixedósatellite (space-to-Earth) service in the band 17.7617.8 GHz shall not cause harmful interference to nor claim protection from assignments in the broadcastingósatellite service operating in conformity with the Radio Regulations. (WRC-07)
- 519 Additional allocation: the bands 18ó18.3 GHz in Region 2 and 18.1ó 18.4 GHz in Regions 1 and 3 are also allocated to the meteorologicaló satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
- The use of the band 18.1618.4 GHz by the fixedósatellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcastingósatellite service. (WRC-2000)
- Alternative allocation: in Germany, Denmark, the United Arab Emirates and Greece, the band 18.1618.4 GHz is allocated to the fixed, fixedósatellite (space-to-Earth) and mobile services on a primary basis (see No. 33). The provisions of No. 519 also apply. (WRC-03)
- The emissions of the fixed service and the fixedósatellite service in the band 18.6ó18.8 GHz are limited to the values given in Nos. 21.5A and 21.16.2, respectively. (WRC-2000)
- The use of the band 18.6618.8 GHz by the fixedósatellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)

- In the band 18.6ó18.8 GHz, in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, Jordan, Lebanon, Libyan Arab Jamahiriya, Morocco, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen, fixed-service systems in operation at the date of entry into force of the Final Acts of WRC-2000 are not subject to the limits of No. 21.5A. (WRC-2000)
- The use of the bands 18.8619.3 GHz (space-to-Earth) and 28.6629.1 GHz (Earth-to-space) by geostationary and non-geostationary fixedósatellite service networks is subject to the application of the provisions of No. 9.11A and No. 22.2 does not apply. Administrations having geostationary-satellite networks under coordination prior to 18 November 1995 shall cooperate to the maximum extent possible to coordinate pursuant to No. 9.11A with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned. Non-geostationary-satellite networks shall not cause unacceptable interference to geostationary fixedósatellite service networks for which complete Appendix 4 notification information is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- 523B The use of the band 19.3619.6 GHz (Earth-to-space) by the fixedósatellite service is limited to feeder links for non-geostationary-satellite systems in the mobileósatellite service. Such use is subject to the application of the provisions of No. 9.11A, and No. 22.2 does not apply.
- No. 22.2 shall continue to apply in the bands 19.3619.6 GHz and 29.16 29.4 GHz between feeder links of non-geostationary mobileósatellite service networks and those fixedósatellite service networks for which complete Appendix 4 coordination information, or notification information, is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- The use of the band 19.3ó19.7 GHz (space-to-Earth) by geostationary fixedó satellite service systems and by feeder links for non-geostationary-satellite systems in the mobileósatellite service is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2. The use of this band for other non-geostationary fixedósatellite service systems, or for the cases indicated in Nos. 523C and 523E, is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- No. 22.2 shall continue to apply in the bands 19.6619.7 GHz and 29.46 29.5 GHz, between feeder links of non-geostationary mobileósatellite service networks and those fixedósatellite service networks for which complete Appendix 4 coordination information, or notification information, is

considered as having been received by the Bureau by 21 November 1997. (WRC-97)

- Additional allocation: in Afghanistan, Algeria, Angola, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. Peopleøs Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Tanzania, Chad, Togo and Tunisia, the band 19.7621.2 GHz is also allocated to the fixed and mobile services on a primary basis. This additional use shall not impose any limitation on the power flux-density of space stations in the fixedósatellite service in the band 19.7621.2 GHz and of space stations in the mobileósatellite service is on a primary basis in the latter band. (WRC-12)
- In order to facilitate interregional coordination between networks in the mobileósatellite and fixedósatellite services, carriers in the mobileósatellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7620.2 GHz and 29.5630 GHz.
- In the bands 19.7620.2 GHz and 29.5630 GHz in Region 2, and in the bands 20.1620.2 GHz and 29.9630 GHz in Regions 1 and 3, networks which are both in the fixedósatellite service and in the mobileósatellite service may include links between Earth stations at specified or unspecified points or while in motion, through one or more satellites for point-to-point and point-to-multipoint communications.
- In the bands 19.7620.2 GHz and 29.5630 GHz, the provisions of No. **4.10** do not apply with respect to the mobileósatellite service.
- The allocation to the mobileósatellite service is intended for use by networks which use narrow spot-beam antennas and other advanced technology at the space stations. Administrations operating systems in the mobileósatellite service in the band 19.7ó20.1 GHz in Region 2 and in the band 20.1ó 20.2 GHz shall take all practicable steps to ensure the continued availability of these bands for administrations operating fixed and mobile systems in accordance with the provisions of No. **524**.
- The use of the bands 19.7620.1 GHz and 29.5629.9 GHz by the mobileó satellite service in Region 2 is limited to satellite networks which are both in the fixedósatellite service and in the mobileósatellite service as described in No. **526**.

- Unless otherwise agreed between the administrations concerned, any station in the fixed or mobile services of an administration shall not produce a power flux-density in excess of 120.4 dB(W/(m²·MHz)) at 3 m above the ground of any point of the territory of any other administration in Regions 1 and 3 for more than 20% of the time. In conducting the calculations, administrations should use the most recent version of Recommendation ITU-R P.452 (see Recommendation ITU-R BO.1898). (WRC-12)
- 530B In the band 21.4622 GHz, in order to facilitate the development of the broadcastingósatellite service, administrations in Regions 1 and 3 are encouraged not to deploy stations in the mobile service and are encouraged to limit the deployment of stations in the fixed service to point-to-point links. (WRC-12)
- The use of the band 21.4622 GHz is subject to the provisions of Resolution 755 (WRC-12). (WRC-12)
- 530D See Resolution **555 (WRC-12)**. (WRC-12)
- Additional allocation: in Japan, the band 21.4622 GHz is also allocated to the broadcasting service on a primary basis.
- The use of the band 22.21622.5 GHz by the Earth explorationósatellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
- The location of earth stations in the space research service shall maintain a separation distance of at least 54 km from the respective border(s) of neighbouring countries to protect the existing and future deployment of fixed and mobile services unless a shorter distance is otherwise agreed between the corresponding administrations. Nos. **9.17** and **9.18** do not apply.
- Use of the band 24.65625.25 GHz in Region 1 and the band 24.656 24.75 GHz in Region 3 by the fixedósatellite service (Earth-to-space) is limited to earth stations using a minimum antenna diameter of 4.5 m. (WRC-12)
- The interósatellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.
- In the band 24.75625.25 GHz, feeder links to stations of the broadcastingó satellite service shall have priority over other uses in the fixedósatellite service (Earth-to-space). Such other uses shall protect and shall not claim

protection from existing and future operating feeder-link networks to such broadcasting satellite stations.

- The use of the band 29.1629.5 GHz (Earth-to-space) by the fixedósatellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobileósatellite service. Such use is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2, except as indicated in Nos. 523C and 523E where such use is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- Use of the 25.25627.5 GHz band by the interosatellite service is limited to space research and Earth explorationosatellite applications, and also transmissions of data originating from industrial and medical activities in space.
- Administrations operating earth stations in the Earth explorationósatellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth explorationósatellite service or in the space research service should be operated taking into account the most recent version of Recommendation ITU-R SA.1862. (WRC-12)
- In Saudi Arabia, Austria, Belgium, Brazil, Bulgaria, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Liechtenstein, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, the Syrian Arab Republic, Dem. People& Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Sweden, Switzerland, Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth explorationó satellite service in the band 25.5627 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-12)
- In Algeria, Saudi Arabia, Bahrain, Botswana, Brazil, Cameroon, Comoros, Cuba, Djibouti, Egypt, United Arab Emirates, Estonia, Finland, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Lithuania, Malaysia, Morocco, Nigeria, Oman, Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Tanzania, Tunisia, Uruguay, Zambia and Zimbabwe, earth stations operating in the space research service in the band 25.5627 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-12)

- Space services using non-geostationary satellites operating in the interó satellite service in the band 27ó27.5 GHz are exempt from the provisions of No. 22.2.
- In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. Peoples Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9628.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to-ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other coprimary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution 145 (Rev.WRC-12). (WRC-12)
- Additional allocation: the bands 27.500627.501 GHz and 29.9996 30.000 GHz are also allocated to the fixedósatellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07)
- The band 27.5630 GHz may be used by the fixedósatellite service (Earth-to-space) for the provision of feeder links for the broadcastingósatellite service.
- 540 Additional allocation: the band 27.501629.999 GHz is also allocated to the fixedósatellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
- In the band 28.5630 GHz, the Earth explorationósatellite service is limited to the transfer of data between stations and not to the primary collection of information by means of active or passive sensors.
- Feeder links of non-geostationary networks in the mobileósatellite service and geostationary networks in the fixedósatellite service operating in the band 29.1ó29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the Earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix 4 coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent World Radiocommunication Conference. Administrations

submitting Appendix 4 information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)

- Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Oman, Pakistan, Philippines, Qatar, the Syrian Arab Republic, the Dem. People& Rep. of Korea, Somalia, Sudan, South Sudan, Sri Lanka and Chad, the band 29.5ó31 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits specified in Nos. 21.3 and 21.5 shall apply. (WRC-12)
- The band 29.95630 GHz may be used for space-to-space links in the Earth explorationósatellite service for telemetry, tracking, and control purposes, on a secondary basis.
- In Bhutan, Cameroon, Korea (Rep. of), the Russian Federation, India, 543A Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 31631.3 GHz may also be used by systems using high altitude platform stations (HAPS) in the ground-to-HAPS direction. The use of the band 31631.3 GHz by systems using HAPS is limited to the territory of the countries listed above and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems, systems in the mobile service and systems operated under No. 545. Furthermore, the development of these services shall not be constrained by HAPS. Systems using HAPS in the band 31631.3 GHz shall not cause harmful interference to the radio astronomy service having a primary allocation in the band 31.3631.8 GHz, taking into account the protection criterion as given in Recommendation ITU-R RA.769. In order to ensure the protection of satellite passive services, the level of unwanted power density into a HAPS ground station antenna in the band 31.3631.8 GHz shall be limited to 106 dB(W/MHz) under clear-sky conditions, and may be increased up to 100 dB(W/MHz) under rainy conditions to mitigate fading due to rain, provided the effective impact on the passive satellite does not exceed the impact under clear-sky conditions. See Resolution 145 (**Rev.WRC-12**). (WRC-12)
- In the band 31631.3 GHz the power flux-density limits specified in Article 21, Table 21–4, shall apply to the space research service.

- 545 Different category of service: in Armenia, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 31631.3 GHz to the space research service is on a primary basis (see No. 33). (WRC-12)
- Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the band 31.56 31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 33). (WRC-12)
- The bands 31.8633.4 GHz, 37640 GHz, 40.5643.5 GHz, 51.4652.6 GHz, 55.78659 GHz and 64666 GHz are available for high-density applications in the fixed service (see Resolution **75** (WRC-2000)). Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixedósatellite service in the bands 39.5640 GHz and 40.5642 GHz (see No. **516B**), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)
- 547A Administrations should take practical measures to minimize the potential interference between stations in the fixed service and airborne stations in the radionavigation service in the 31.8633.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
- 547B Alternative allocation: in the United States, the band 31.8632 GHz is allocated to the radionavigation and space research (deep space) (space-to-Earth) services on a primary basis. (WRC-97)
- 547C Alternative allocation: in the United States, the band 32632.3 GHz is allocated to the radionavigation and space research (deep space) (space-to-Earth) services on a primary basis. (WRC-03)
- 547D *Alternative allocation:* in the United States, the band 32.3633 GHz is allocated to the interosatellite and radionavigation services on a primary basis. (WRC-97)
- 547E *Alternative allocation:* in the United States, the band 33633.4 GHz is allocated to the radionavigation service on a primary basis. (WRC-97)
- In designing systems for the interósatellite service in the band 32.3633 GHz, for the radionavigation service in the band 32633 GHz, and for the space

research service (deep space) in the band 31.8632.3 GHz, administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation 707). (WRC-03)

- Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South Sudan, Sri Lanka, Togo, Tunisia and Yemen, the band 33.46 36 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- 549A In the band 35.5636.0 GHz, the mean power flux-density at the Earthøs surface, generated by any spaceborne sensor in the Earth explorationó satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed 73.3 dB(W/m²) in this band. (WRC-03)
- Different category of service: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 34.7635.2 GHz to the space research service is on a primary basis (see No. 33). (WRC-12)
- For sharing of the band 36637 GHz between the Earth explorationósatellite (passive) service and the fixed and mobile services, Resolution **752** (WRC-**07**) shall apply. (WRC-07)
- 551F Different category of service: in Japan, the allocation of the band 41.56 42.5 GHz to the mobile service is on a primary basis (see No. 33). (WRC-97)
- The equivalent power flux-density (epfd) produced in the band 42.56 43.5 GHz by all space stations in any non-geostationary-satellite system in the fixedósatellite service (space-to-Earth), or in the broadcastingósatellite service operating in the 42642.5 GHz band, shall not exceed the following values at the site of any radio astronomy station for more than 2% of the time:
 - 230 dB(W/m²) in 1 GHz and 246 dB(W/m²) in any 500 kHz of the 42.5643.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and

• 209 dB(W/m²) in any 500 kHz of the 42.5643.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

These epfd values shall be evaluated using the methodology given in Recommendation ITU-R S.1586-1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in Recommendation ITU-R RA.1631 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle $_{min}$ of the radiotelescope (for which a default value of 5° should be adopted in the absence of notified information).

These values shall apply at any radio astronomy station that either:

- was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or
- was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorised the space stations. In Region 2, Resolution **743 (WRC-03)** shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-07)

- The power flux-density in the band 42.5643.5 GHz produced by any geostationary space station in the fixedósatellite service (space-to-Earth), or the broadcastingósatellite service operating in the 42642.5 GHz band, shall not exceed the following values at the site of any radio astronomy station:
 - 137 dB(W/m²) in 1 GHz and 153 dB(W/m²) in any 500 kHz of the 42.5643.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and
 - 116 dB(W/m²) in any 500 kHz of the 42.5643.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

These values shall apply at the site of any radio astronomy station that either:

• was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or

was notified before the date of receipt of the complete Appendix 4
information for coordination or notification, as appropriate, for the
space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorised the space stations. In Region 2, Resolution **743** (WRC-03) shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-07)

- The allocation of the spectrum for the fixedósatellite service in the bands 42.5ó43.5 GHz and 47.2ó50.2 GHz for Earth-to-space transmission is greater than that in the band 37.5ó39.5 GHz for space-to-Earth transmission in order to accommodate feeder links to broadcasting satellites. Administrations are urged to take all practicable steps to reserve the band 47.2ó49.2 GHz for feeder links for the broadcastingósatellite service operating in the band 40.5ó 42.5 GHz.
- The allocation to the fixed service in the bands 47.2647.5 GHz and 47.96 48.2 GHz is designated for use by high altitude platform stations. The use of the bands 47.2647.5 GHz and 47.9648.2 GHz is subject to the provisions of Resolution 122 (Rev.WRC-07). (WRC-07)
- In the bands 43.5647 GHz and 66671 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radiocommunications services to which these bands are allocated (see No. 43). (WRC-2000)
- In the bands 43.5647 GHz, 66671 GHz, 956100 GHz, 1236130 GHz, 191.86 200 GHz and 2526265 GHz, satellite links connecting land stations at specified fixed points are also authorised when used in conjunction with the mobileósatellite service or the radionavigationósatellite service. (WRC-2000)
- 554A The use of the bands 47.5647.9 GHz, 48.2648.54 GHz and 49.44650.2 GHz by the fixedósatellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
- Additional allocation: the band 48.94649.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
- The power flux-density in the band 48.94649.04 GHz produced by any geostationary space station in the fixedósatellite service (space-to-Earth) operating in the bands 48.2648.54 GHz and 49.44650.2 GHz shall not exceed 151.8 dB(W/m²) in any 500 kHz band at the site of any radio astronomy. station. (WRC-03)

- In the bands 51.4654.25 GHz, 58.2659 GHz and 64665 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
- Use of the bands 54.25ó56.9 GHz, 57ó58.2 GHz and 59ó59.3 GHz by the interósatellite service is limited to satellites in the geostationary satellite orbit. The single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the interósatellite service, for all conditions and for all methods of modulation, shall not exceed 147 dB(W/(m²·100 MHz)) for all angles of arrival. (WRC-97)
- 556B Additional allocation: in Japan, the band 54.25655.78 GHz is also allocated to the mobile service on a primary basis for low-density use. (WRC-97)
- 557 Additional allocation: in Japan, the band 55.78658.2 GHz is also allocated to the radiolocation service on a primary basis. (WRC-97)
- 557A In the band 55.78656.26 GHz, in order to protect stations in the Earth explorationósatellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to 26 dB(W/MHz). (WRC-2000)
- In the bands 55.78658.2 GHz, 59664 GHz, 66671 GHz, 122.256123 GHz, 1306134 GHz, 1676174.8 GHz and 191.86200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the interosatellite service (see No. 43). (WRC-2000)
- Use of the band 56.9657 GHz by interósatellite systems is limited to links between satellites in geostationary-satellite orbit and to transmissions from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links between satellites in the geostationary-satellite orbit, the single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all conditions and for all methods of modulation, shall not exceed 147 dB(W/(m²·100 MHz)) for all angles of arrival. (WRC-97)
- In the band 59664 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the interósatellite service (see No. 43). (WRC-2000)
- In the band 78679 GHz radars located on space stations may be operated on a primary basis in the Earth explorationósatellite service and in the space research service.

- In the band 74676 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixedósatellite service or stations of the broadcastingósatellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcastingósatellite service. (WRC-2000)
- The 81681.5 GHz band is also allocated to the amateur and amateurósatellite services on a secondary basis.
- 561B In Japan, use of the band 84686 GHz, by the fixedósatellite service (Earth-to-space) is limited to feeder links in the broadcastingósatellite service using the geostationary-satellite orbit. (WRC-2000)
- The use of the band 94694.1 GHz by the Earth explorationósatellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)
- In the bands 94694.1 GHz and 1306134 GHz, transmissions from space stations of the Earth explorationósatellite service (active) that are directed into the main beam of a radio astronomy antenna have the potential to damage some radio astronomy receivers. Space agencies operating the transmitters and the radio astronomy stations concerned should mutually plan their operations so as to avoid such occurrences to the maximum extent possible. (WRC-2000)
- 562B In the bands 1056109.5 GHz, 111.86114.25 GHz, 155.56158.5 GHz and 2176226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-2000)
- Use of the band 1166122.25 GHz by the interósatellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the interósatellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earthøs surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed 148 dB(W/(m²·MHz)) for all angles of arrival. (WRC-2000)
- 562D Additional allocation: In Korea (Rep. of), the bands 1286130 GHz, 1716 171.6 GHz, 172.26172.8 GHz and 173.36174 GHz are also allocated to the radio astronomy service on a primary basis until 2015. (WRC-2000)
- The allocation to the Earth explorationósatellite service (active) is limited to the band 133.5ó134 GHz. (WRC-2000)

- 562F In the band 155.56158.5 GHz, the allocation to the Earth exploration satellite (passive) and space research (passive) services shall terminate on 1 January 2018. (WRC-2000)
- The date of entry into force of the allocation to the fixed and mobile services in the band 155.5ó158.5 GHz shall be 1 January 2018. (WRC-2000)
- Use of the bands 174.86182 GHz and 1856190 GHz by the interósatellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the interósatellite service, for all conditions and for all methods of modulation, at all altitudes from 0 to 1 000 km above the Earthøs surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed 144 dB(W/(m²·MHz)) for all angles of arrival. (WRC-2000)
- 563A In the bands 2006209 GHz, 2356238 GHz, 2506252 GHz and 2656275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
- The band 237.96238 GHz is also allocated to the Earth explorationósatellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
- The following frequency bands in the range 275ó1 000 GHz are identified for use by administrations for passive service applications:
 - radio astronomy service: 2756323 GHz, 3276371 GHz, 3886 424 GHz, 4266442 GHz, 4536510 GHz, 6236711 GHz, 7956 909 GHz and 9266945 GHz;
 - Earth explorationósatellite service (passive) and space research service (passive): 275ó286 GHz, 296ó306 GHz, 313ó356 GHz, 361ó 3976399 GHz, 365 GHz. 3696392 GHz. 416ó 4096411 GHz. 434 GHz, 4396467 GHz, 4776502 GHz, 5236527 GHz, 538ó 581 GHz, 611ó630 GHz, 6346654 GHz, 6576692 GHz, 713ó 718 GHz, 7296733 GHz, 750ó754 GHz, 7716776 GHz, 823ó 850ó854 GHz, 8576862 GHz, 905ó 846 GHz, 866ó882 GHz, 928 GHz, 9516956 GHz, 9686973 GHz and 9856990 GHz.

The use of the range 27561 000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 27561 000 GHz range available for active service applications are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Table of Frequency Allocations is established in the above-mentioned 27561 000 GHz frequency range. All frequencies in the range 1 00063 000 GHz may be used by both active and passive services. (WRC-12)