



SOMALIA
FREQUENCY ALLOCATION TABLE

January 2024
National Communications Authority

Document History

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1. PREFACE

Somalia Frequency Allocation Table (SOMFAT) have been developed in accordance with the International Telecommunication Union (ITU) regulations governing radio spectrum. The objective of developing the SOMFAT is to increase spectrum efficiency and utilization.

According to the National Communication Law “Article 36: Management of Radio Frequencies”, NCA, while performing its duties that are related to the radio frequencies, it shall be responsible for the following issues;

1. Encouraging the utilization of the radio frequencies in an organized, improved performance and scientifically economized way, in order to allow the license given to the service provider to enable him to have adequate frequencies given to him and to use them according to the allocation of the Agency.
2. The issuing of licenses for radio and television frequencies.
3. The development of modern services with utilization of radio frequencies.
4. Enabling business competition that is based on clean and transparent way when displaying or issuing radio frequency services, based on proper management and this Law.
5. Consideration and planning the current existing and expected needs or any other issues deemed necessary.

In addition, according to the National Communication Law “Article 38: The Table for Allocation and Issuing Frequencies”,

1. The Agency shall plan and manage the table for the allocation and issuing of National frequencies in compliance with this Law.
2. The Agency shall recognize the communication frequencies which the existing companies were already using.
3. The Agency shall plan and allocate radio frequencies to the following users:

A. National Security Agencies.

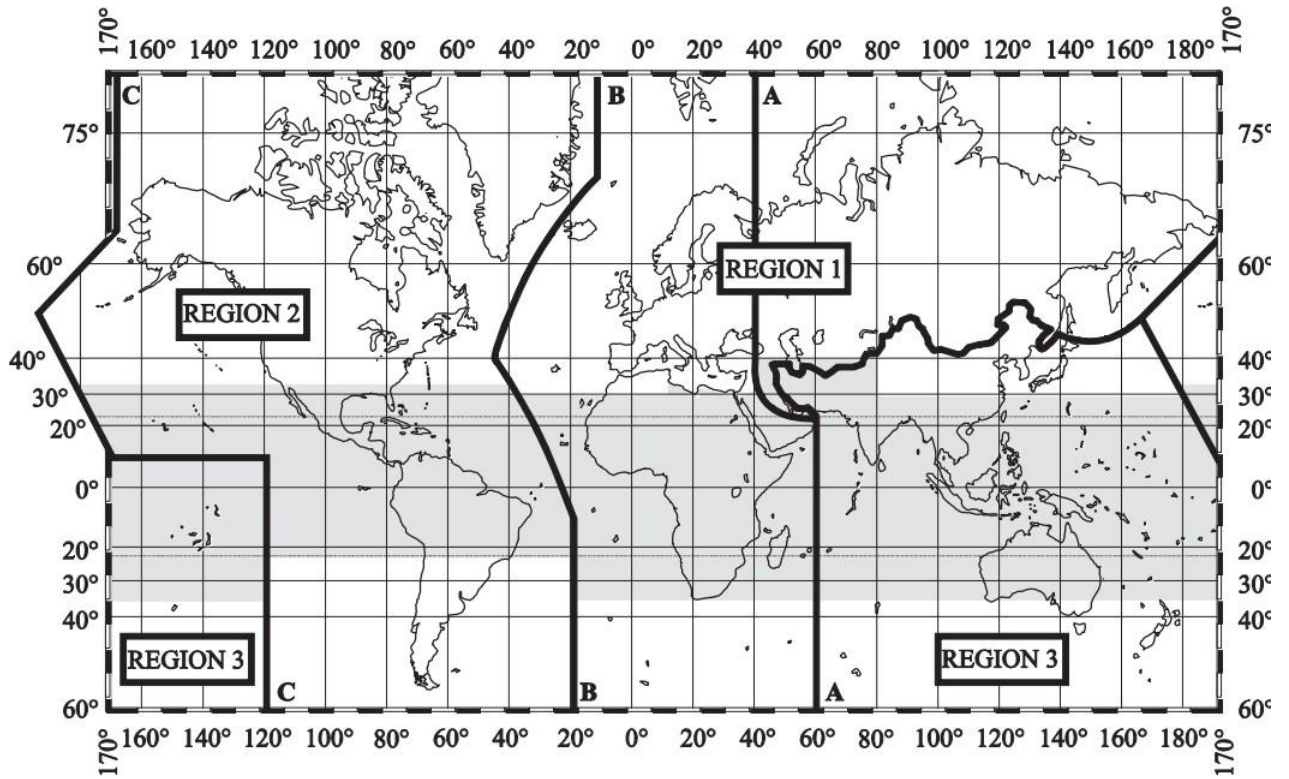
- B. Fire Department and Public Safety.
 - C. News Media Agencies.
 - D. Communication companies.
4. The Ministry can request the Agency to transmit to it detailed table it prepared.
 5. The Table shall come effective when approved by the Agency and it shall be published in the internet website of the Agency, in order to enable any interested public to access the information.

Somalia Frequency Allocation Table details the uses to which various frequency bands are put in Somalia. It gives the framework within which frequency assignments are to be made for all radio communications services in Somalia. The SOMFAT may be amended according to changes to the Radio Regulations made by the World Radiocommunication Conferences (WRC) of the ITU such that these affect the SOMFAT, or according to the implementation of national frequency allocation decisions.

This SOMFAT has been updated according to the final act of WRC-23 and the Radio Regulations of 2020.

2. WORLD REGIONS

For the allocation of frequencies, The ITU divided the world into three regions as shown on the following map. Somalia lies within Region 1.



3. TERMS AND DEFINITIONS

Administration:	Any governmental department or service responsible for discharging the obligations undertaken in the Constitution of the International Telecommunication Union, in the Convention of the International Telecommunication Union and in the Administrative Regulations.
Telecommunication:	Any transmission, emission or reception of signs, signals, writings, images and sounds or intelligence of any nature by wire, radio, optical or other electromagnetic systems.
Radio:	A general term applied to the use of radio waves. Radio waves or Hertzian waves: Electromagnetic waves of frequencies arbitrarily lower than 3 000 GHz, propagated in space without artificial guide.
Radiocommunication:	Telecommunication by means of radio waves.
Terrestrial Radiocommunication:	Any Radiocommunication other than space Radiocommunication or radio astronomy.
Space Radiocommunication:	Any radiocommunication involving the use of one or more space stations or the use of one or more reflecting satellites or other objects in space.
Allocation (of a frequency band):	Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space Radiocommunication services or the radio astronomy service under specified conditions. This term shall also be applied to the frequency band concerned.
Allotment (of a radio frequency or radio frequency channel):	Entry of a designated frequency channel in an agreed plan, adopted by a competent conference, for use by one or more administrations for a terrestrial or space radiocommunication service in one or more identified countries or geographical areas

Assignment (of a radio frequency or radio frequency channel):

Authorization given by an administration for a radio station to use a radio frequency or radio frequency channel under specified conditions.

Radiodetermination:

The determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of radio waves.

Radionavigation:

Radiodetermination used for the purposes of navigation, including obstruction warning.

Radiolocation:

Radiodetermination used for purposes other than those of radionavigation.

Radio Astronomy:

Astronomy based on the reception of radio waves of cosmic origin.

Radiocommunication service:

A service involving the transmission, emission and/or reception of radio waves for specific telecommunication purposes. Unless otherwise stated, any radiocommunication service relates to terrestrial radiocommunication.

Fixed service:

A radiocommunication service between specified fixed points

Fixed-satellite service:

A radiocommunication service between earth stations at given positions, when one or more satellites are used; the given position may be a specified fixed point or any fixed point within specified areas; in some cases this service includes satellite-to-satellite links, which may also be operated in the inter-satellite service; the fixed-satellite service may also include feeder links for other space radiocommunication services.

- Inter-satellite service:** A radiocommunication service providing links between artificial satellites. Space operation service: A radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand.
- Mobile service:** A radiocommunication service between mobile and land stations, or between mobile stations.
- Mobile-satellite Service:** A radiocommunication service between mobile earth stations and one or more space stations, or between space stations used by this service, or between mobile earth stations by means of one or more space stations.
- Land mobile service:** A mobile service between base stations and land mobile stations, or between land mobile stations.
- Land mobile-satellite service:** A mobile-satellite service in which mobile earth stations are located on land.
- Maritime mobile service:** A mobile service between coast stations and ship stations, or between ship stations, or between associated on-board communication stations; survival craft stations and emergency position-indicating radio beacon stations may also participate in this service.
- Maritime mobile-satellite service:** A mobile-satellite service in which mobile earth stations are located on board ships; survival craft stations and emergency position indicating radio beacon stations may also participate in this service.
- Port operations service:** A maritime mobile service in or near a port, between cost stations and ship stations, or between ship stations, in which messages are restricted to those relating to the operational handling, the movement and the safety of ships and, in emergency, to the safety of persons. Messages which are of a public correspondence nature shall be excluded from this service.

Aeronautical mobile service:	A mobile service between aeronautical stations and aircraft stations, or between aircraft stations, in which survival craft stations may participate; emergency position-indicating radio beacon stations may also participate in this service on designated distress and emergency frequencies.
Aeronautical mobile (R) service:	An aeronautical mobile service reserved for communications relating to safety and regularity of flight, primarily along national or international civil air routes. (R=Route)
Aeronautical mobile (OR) service:	An aeronautical mobile service intended for communications, including those relating to flight coordination, primarily outside national or international civil air routes. (OR= Off-Route)
Aeronautical mobile-satellite service:	A mobile-satellite service in which mobile earth stations are located on board aircraft; survival craft stations and emergency position indicating radio beacon stations may also participate in this service.
Aeronautical mobile-satellite (R) service:	An aeronautical mobile-satellite service reserved for communications relating to safety and regularity of flights, primarily along national or international civil air routes.
Aeronautical mobile-satellite (OR) service:	An aeronautical mobile-satellite service intended for communications, including those relating to flight coordination, primarily outside national and international civil air routes.
Broadcasting service:	A radiocommunication service in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, television transmissions or other types of transmission.

Broadcasting-satellite service:	A radiocommunication service in which signals transmitted or retransmitted by space stations are intended for direct reception by the general public. In the broadcasting-satellite service, the term “direct reception” shall encompass both individual reception and community reception.
Radiodetermination service:	A radiocommunication service for the purpose of radiodetermination
Radiodetermination-satellite service:	A radiocommunication service for the purpose of radiodetermination involving the use of one or more space stations. This service may also include feeder links necessary for its own operation.
Radionavigation service:	A radiodetermination service for the purpose of radionavigation.
Radionavigation-satellite service:	A radiodetermination-satellite service used for the purpose of radionavigation. This service may also include feeder links necessary for its operation.
Maritime radionavigation service:	A radionavigation service intended for the benefit and for the safe operation of ships.
Maritime radionavigation-satellite service:	A radionavigation-satellite service in which earth stations are located on board ships.
Aeronautical radionavigation service:	A radionavigation service intended for the benefit and for the safe operation of aircraft.
Aeronautical radionavigation-satellite service:	A radionavigation-satellite service in which earth stations are located on board aircraft.

Radiolocation service:	A radiodetermination service for the purpose of radiolocation.
Radiolocation-satellite service:	A radiodetermination-satellite service used for the purpose of radiolocation. This service may also include the feeder links necessary for its operation.
Meteorological aids service:	A radiocommunication service used for meteorological, including hydrological, observations and exploration.
Earth exploration-satellite service:	A radiocommunication service between earth stations and one or more space stations.
Meteorological-satellite service:	An earth exploration-satellite service for meteorological purposes.
Standard frequency and time signal service:	A radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception.
Amateur service:	A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs that are, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.
Amateur-satellite service:	A radiocommunication service using space stations on earth satellites for the same purposes as those of the amateur service.
Industrial, Scientific and Medical (ISM) applications:	Operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications.

Citizens' Band radio:	A system of short-distance radio communications between individuals on a selection of 40 channels within the 27 MHz (11 m) band.
Radio astronomy service:	A service involving the use of radio astronomy.
Special service:	A radiocommunication service, not otherwise defined in this Section, carried on exclusively for specified needs of general utility, and not open to public correspondence
Station:	One or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a radiocommunication service, or the radio astronomy service.
Terrestrial station:	A station effecting terrestrial radiocommunication.
Earth station:	A station located either on the Earth's surface or within the major portion of the Earth's atmosphere and intended for communication with space station or other space object.
Space station:	A station located on an object, which is beyond, is intended to go beyond, or has been beyond, the major portion of the Earth's atmosphere.
Fixed station:	A station in the fixed service.
High altitude platform station:	A station located on an object at an altitude of 20 to 50 km and at a specified, nominal, fixed point relative to the Earth.

Mobile station:	A station in the mobile service intended to be used while in motion or during halts at unspecified points.
Mobile earth station:	An earth station in the mobile-satellite service intended to be used while in motion or during halts at unspecified points.
Base station:	A land station in the land mobile service.
Base earth station:	An earth station in the fixed satellite service or, in some cases, in the land mobile satellite service, located at a specified fixed point or within a specified area on land to provide a feeder link for the land mobile-satellite service.
Land mobile station:	A mobile station in the land mobile service capable of surface movement within the geographical limits of a country or continent.
Land mobile earth station:	A mobile earth station in the land mobile-satellite service capable of surface movement within the geographical limits of a country or continent.
Coast station:	A land station in the maritime mobile service.
Port station:	A coast station in the port operations service.
Ship station:	A mobile station in the maritime mobile service located on board a vessel which is not permanently moored, other than a survival craft station.
Aeronautical station:	A land station in the aeronautical mobile service.

Aeronautical earth station:	An earth station in the fixed-satellite service, or, in some cases, in the aeronautical mobile-satellite service, located at a specified fixed point on land to provide a feeder link for the aeronautical mobile-satellite service.
Aircraft earth station:	A mobile earth station in the aeronautical mobile-satellite service located on board an aircraft.
Broadcasting station:	A station in the broadcasting service.
Radiodetermination station:	A station in the radiodetermination service.
Amateur station:	A station in the amateur service.
Radio astronomy station:	A station in the radio astronomy service.
Radar:	A radiodetermination system based on the comparison of reference signals with radio signals reflected, or retransmitted, from the position to be determined.
Satellite system:	A space system using one or more artificial earth satellites.
Satellite network:	A satellite system or a part of a satellite system, consisting of only one satellite and the cooperating earth stations.

Satellite link: A radio link between a transmitting earth station and a receiving earth station through on satellite. A satellite link comprises one up-link and one downlink.

Feeder link: A radio link from an earth station at a given location to a space station, or vice versa, conveying information for a space radiocommunication service other than for the fixed-satellite service. The given location may be at a specified fixed point, or at any fixed point within specified areas.

4. CATEGORIES OF SERVICES AS PRIMARY OR SECONDARY

The Somalia Allocation Table accommodates four informative columns, each contributing to a comprehensive understanding of the spectrum allocation landscape.

1. ITU Radio Regulations Region 1 Allocations:

The first column determines Region 1 service allocations according to the Radio Regulations.

2. Somalia National Allocations:

The second column specifies national service allocations in Somalia while highlighting Somalia-related footnotes within the Radio Regulations.

3. Main national Usage:

The third column represents the primary national utilization of each frequency band within Somalia, reflecting the essence of the national footnotes.

4. Remarks:

Lastly, the fourth column, dedicated to remarks which provide valuable contextual information for each spectrum band, enhancing the overall clarity and applicability of the national allocation table.

It should be noted that in both the ITU Region 1 allocations column and the Somalia national allocations column, when a frequency band is designated for multiple services, the names of these services are listed in a specific order for clarity and categorization where:

- Services names which are printed in “capitals” (example: FIXED), are called “primary” services;
- Services names which are printed in “normal characters” (example: Mobile), are called “secondary” services
- Additional remarks shall be printed in normal characters (example: MOBILE except aeronautical mobile).

Stations of a secondary service:

- Shall not cause harmful interference to stations of primary services to which frequencies are already assigned or to which frequencies may be assigned at a later date;
- Cannot claim protection from harmful interference from stations of a primary service to which frequencies are already assigned or may be assigned at a later date;
- Can claim protection, however, from harmful interference from stations of the same or other secondary service (s) to which frequencies may be assigned at a later date.

5. INTERNATIONAL AND NATIONAL FOOTNOTES TO SOMFAT

The frequency bands and services in this table are referenced to RR footnotes and Somalia footnotes. Where footnotes are employed, the following rules apply:

- Where a footnote is printed on the same line as the name of a radio service, the footnote applies only to that service.
- Where a footnote is printed within the lower part of a frequency band and not on the same line as a radio service, the footnote applies to that band or some part thereof.

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- The ITU Region 1 column has references to ITU International footnotes as given in Article 5 of Radio Regulations and shown as 5.XXX. These international footnotes are reproduced at the end of this table for reference purposes.
 - The Somalia allocations column has references to Somalia footnotes and shown as SOM.XXX. Somalia Footnotes in this version of the SOMFAT are used to indicate the main organization using the allocation and it is presented at the end of this Table.

6. SOMALIA FREQUENCY ALLOCATION TABLE

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Below 8.3			
Not Allocated	Not Allocated		The band below 8.3 KHz is not allocated
5.53 5.54			
8.3-9	8.3-9		
METEOROLOGICAL AIDS 5.54A	METEOROLOGICAL AIDS SOM1.6		
5.54B 5.54C			
9-11.3	9-11.3		
METEOROLOGICAL AIDS 5.54A RADIONAVIGATION	METEOROLOGICAL AIDS SOM1.6 RADIONAVIGATION SOM1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
11.3-14	11.3-14		
RADIONAVIGATION	RADIONAVIGATION SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
14-19.95	14-19.95		
FIXED MARITIME MOBILE 5.57	FIXED SOM2.1 MARITIME MOBILE SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	Maritime mobile use is limited to radiotelegraph coast stations (A1A and F1B only). (5.57) For Maritime applications Coast radiotelegraphy
5.55 5.56	SOM 5		
19.95-20.05	19.95-20.05		
STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) SOM1.5	SRD: Inductive applications UltraLow Power Active Medical Implants	ITU RR Article 26
	SOM 5		
20.05-70	20.05-70		
FIXED MARITIME MOBILE 5.57	FIXED SOM2.1 MARITIME MOBILE , SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	Maritime mobile use is limited to radiotelegraph coast stations (A1A and F1B only). (5.57) For Maritime applications Coast radiotelegraphy

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.56 5.58	SOM 5		
70-72	70-72		
RADIONAVIGATION 5.60	RADIONAVIGATION , SOM1.7	SRD: Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
72-84	72-84		
FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	FIXED SOM2.1 MARITIME MOBILE , SOM2.1 RADIONAVIGATION , SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants	Maritime mobile use is limited to radiotelegraph coast stations (A1A and F1B only). (5.57) coast radiotelegraphy
5.56	SOM 5		
84-86	84-86		
RADIONAVIGATION 5.60	RADIONAVIGATION , SOM1.7	SRD: Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
86-90	86-90		
FIXED MARITIME MOBILE 5.57 RADIONAVIGATION	FIXED SOM2.1 MARITIME MOBILE , SOM2.1 RADIONAVIGATION SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants	Maritime mobile use is limited to radiotelegraph coast stations (A1A and F1B only). (5.57) For Maritime applications Coast radiotelegraphy
5.56	SOM 5		
90-110	90-110		
RADIONAVIGATION 5.62 Fixed	RADIONAVIGATION , SOM1.1.2 Fixed	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64	SOM 5		
110-112	110-112		
FIXED MARITIME MOBILE RADIONAVIGATION	FIXED SOM2.1 MARITIME MOBILE SOM2.1 RADIONAVIGATION SOM1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64	SOM 5		
112-115	112-115		
RADIONAVIGATION 5.60	RADIONAVIGATION , SOM1.1	SRD:	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
115-117.6	115-117.6		
RADIONAVIGATION 5.60 Fixed Maritime mobile	RADIONAVIGATION , SOM1.1 Fixed SOM1.1.2 Maritime mobile SOM2.1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64 5.66	SOM 5		
117.6-126	117.6-126		
FIXED MARITIME MOBILE RADIONAVIGATION 5.60	FIXED SOM2.1 MARITIME MOBILE SOM2.1 RADIONAVIGATION , SOM1.1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64	SOM 5		
126-129	126-129		
RADIONAVIGATION 5.60	RADIONAVIGATION , SOM1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
	SOM 5		
129-130	129-130		
FIXED MARITIME MOBILE RADIONAVIGATION 5.60	FIXED SOM2.1 MARITIME MOBILE SOM2.1 RADIONAVIGATION , SOM1.1.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64	SOM 5		
130-135.7	130-135.7		
FIXED MARITIME MOBILE	FIXED SOM2.1 MARITIME MOBILE SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64 5.67	SOM 5		
135.7-137.8	135.7-137.8		
FIXED MARITIME MOBILE Amateur 5.67A	FIXED SOM2.1 MARITIME MOBILE SOM2.1 Amateur , SOM1.1.2	SRD: Inductive applications UltraLow Power Active Medical Implants	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.64 5.67 5.67B	SOM 5		
137.8-148.5	137.8-148.5		
FIXED MARITIME MOBILE	FIXED SOM2.1 MARITIME MOBILE SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	
5.64 5.67	SOM 5		
148.5-255	148.5-200		
BROADCASTING	BROADCASTING SOM1.1 200-255 BROADCASTING SOM1.1 AERONAUTICAL RADIONAVIGATION	SRD: UltraLow Power Active Medical Implants	Low frequency (LF) sound broadcasting (GE75 Plan)
5.68 5.69 5.70	SOM 5		
255-283.5	255-283.5		
BROADCASTING AERONAUTICAL RADIONAVIGATION	BROADCASTING SOM1.1 AERONAUTICAL RADIONAVIGATION SOM4.1	SRD: UltraLow Power Active Medical Implants	Radiobeacons ITU RR Article 28 and Appendix 12 For Aeronautical NDBs and locators ITU GE75 Plan
5.70	SOM 5		
283.5-315	283.5-315		
AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73	AERONAUTICAL RADIONAVIGATION SOM4.1 MARITIME RADIONAVIGATION (radio beacons) , SOM1.7	Maritime Radio Beacons SRD: UltraLow Power Active Medical Implants	The band 283.5325 kHz may be used to transmit supplementary navigational information using narrowband techniques. (5.73) The frequency band 285.3285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis. (5.74) ITU RR Article 28 and Appendix 12 For Aeronautical NDBs and locators
5.74	SOM 5, SOM 8		
315-325	315-325		
AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) 5.73	AERONAUTICAL RADIONAVIGATION SOM4.1 Maritime radionavigation (radiobeacons) SOM1.7	SRD: UltraLow Power Active Medical Implants	The band 283.5325 kHz may be used to transmit supplementary navigational information using narrowband techniques. (5.73) ITU RR Article 28 and Appendix 12 For Aeronautical NDBs and locator Radiobeacons

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			Maritime radiobeacons
5.75	SOM 5, SOM 8		
325-405	325-405		
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1	Aeronautical NDBs and locators SRD: Inductive applications UltraLow Power Active Medical Implants	ITU RR Article 28 and Appendix 12 Radiobeacons
	SOM 5, SOM 9		
405-415	405-415		
RADIONAVIGATION 5.76	RADIONAVIGATION , SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants	For Maritime radio directionfinding at 410 kHz. (5.76) Radiobeacons
	SOM 5		
415-435	415-435		
MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION	MARITIME MOBILE , SOM1.7 AERONAUTICAL RADIONAVIGATION SOM2.1	SRD: Inductive applications UltraLow Power Active Medical Implants	ITU RR Article 28 and Appendix 12 For Aeronautical NDBs and locators The use of the band by the maritime mobile service is limited to radiotelegraphy. (5.79)
	SOM 5, SOM 8		
435-472	435-472		
MARITIME MOBILE 5.79 Aeronautical radionavigation 5.77	MARITIME MOBILE , SOM2.1 SOM1.1.1 Aeronautical radionavigation , SOM4.1	Maritime applications SRD: Inductive applications UltraLow Power Active Medical Implants Casualty detection devices	ITU RR Articles 51 and 52 The use of the band by the maritime mobile service is limited to radiotelegraphy. (5.79)
5.82	SOM 5, SOM 8		
472-479	472-479		
MARITIME MOBILE 5.79 Amateur 5.80A Aeronautical radio navigation 5.77 5.80	MARITIME MOBILE SOM2.1, SOM1.1.1 Amateur , SOM1.1.2 Aeronautical radio navigation , , SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants	The use of the band by the maritime mobile service is limited to radiotelegraphy. (5.79) Amateur usage not allowed (5.80B)
5.80B 5.82	SOM 5, SOM 8		
479-495	479-495		
MARITIME MOBILE 5.79 5.79A	MARITIME MOBILE , SOM2.1, SOM1.1.1	Maritime Safety Information (MSI) at 490 kHz NAVTEX	ITU RR 52.7

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Aeronautical radio navigation 5.77	Aeronautical radio navigation, SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants	ITU RR Appendices 15 and 25 NAVTEX operations in accordance with IMO procedures (5.79A) The use of the band by the maritime mobile service is limited to radiotelegraphy. (5.79)
5.82	SOM 5, SOM 8		
495-505	495-505		
MARITIME MOBILE 5.82C ADD 5.A111	MARITIME MOBILE SOM1.7	Maritime GMDSS Broadcasting safety information from coast stations SRD: Inductive applications UltraLow Power Active Medical Implants	Exclusive to international NAVDAT system. (5.82C)
	SOM 5, SOM 8		
505-526.5	505-526.5		
MARITIME MOBILE 5.79 5.79A 5.84	MARITIME MOBILE SOM2.1, SOM1.1.1	Maritime Safety Information (MSI) at 518 kHz Exclusive to international NAVTEX	ITU RR 52.6
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1	SRD: Inductive applications UltraLow Power Active Medical Implants Aeronautical radionavigation (510526.5 KHz)	ITU RR Article 28 and Appendix 12 and 15 NAVTEX operations in accordance with IMO procedures. (5.79A) The use of the band by the maritime mobile service is limited to radiotelegraphy. (5.79) For Aeronautical NDBs and locators.
	SOM 5, SOM 8		
526.5-1 606.5	526.5-1 606.5		
BROADCASTING	BROADCASTING SOM1.1	Traditional AM Sound Broadcasting SRD: Inductive applications UltraLow Power Active Medical Implants Medium Wave sound broadcasting (GE75 Plan)	ITU GE75 Plan
5.87 5.87A	SOM 5		
1 606.5-1 625	1 606.5-1 625		
FIXED MARITIME MOBILE 5.90 LAND MOBILE	FIXED SOM2.1 MARITIME MOBILE , SOM1.7 LAND MOBILE SOM2.1	Maritime applications	ITU RR Articles 51 and 52

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.92	SOM 8		
1 625-1 635	1 625-1 635		
RADIOLOCATION	RADIOLOCATION SOM2.1		
5.93			
1 635-1 800	1 635-1 800		
FIXED MARITIME MOBILE 5.90 LAND MOBILE	FIXED SOM1.7 MARITIME MOBILE , SOM1.1.1, SOM2.1 LAND MOBILE SOM2.1		
5.92 5.96	SOM 8		
1 800-1 810	1 800-1 810		
RADIOLOCATION	RADIOLOCATION , SOM2.1.1		
5.93			
1 810-1 850	1810-1830 kHz		
AMATEUR	FIXED MOBILE except aeronautical mobile 1830-1850 kHz AMATEUR SOM 1.1	Amateur applications	
5.98 5.99 5.100	SOM 6, SOM 8, SOM 11		
1 850-2 000	1 850-2 000		
FIXED MOBILE except aeronautical mobile	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.1.1		
5.92 5.96 5.103	SOM 6, SOM 8		
2 000-2 025	2 000-2 025		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7		
5.92 5.103	SOM 6, SOM 8		
2 025-2 045	2 025-2 045		
FIXED MOBILE except aeronautical mobile (R) Meteorological aids 5.104	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7 Meteorological aids , SOM1.6	Oceanographic buoy stations	Meteorological aids usage is limited to oceanographic buoy stations. (5.104)
5.92 5.103	SOM 6, SOM 8		
2 045-2 160	2 045-2 160		
FIXED	FIXED SOM2.1	Fixed applications	ITU RR Articles 51 and 52

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MARITIME MOBILE LAND MOBILE	MARITIME MOBILE SOM2.1, SOM1.7 LAND MOBILE SOM2.1	Maritime applications	
5.92	SOM 6, SOM 8		
2 160-2 170	2 160-2 170		
RADIOLOCATION	RADIOLOCATION SOM2.1 Fixed Mobile, except aeronautical mobile (R)		
5.93 5.107			
2 170-2 173.5	2 170-2 173.5		
MARITIME MOBILE	MARITIME MOBILE SOM1.7		
	SOM 8		
2 173.5-2 190.5	2 173.5-2 190.5		
MOBILE (distress and calling)	MOBILE (distress and calling) SOM1.7	International distress and calling frequencies, GMDSS Telex distress traffic at 2174.5 kHz Radiotelephony distress calling and traffic at 2182 kHz	RR F.N 5.108, 5.109, 5.110, 5.111 and Appendix 15
5.108 5.109 5.110 5.111			
2190.5-2194	2190.5-2194		
MARITIME MOBILE	MARITIME MOBILE SOM2.1, SOM1.7		
	SOM 8		
2 194-2 300	2 194-2 300		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7	Fixed applications	
5.92 5.103 5.112	SOM 6, SOM 8		
2 300-2 498	2 300-2 498		
FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7 BROADCASTING , SOM1.1	Fixed applications Sound broadcasting in tropical zone	ITU RR Article 23
5.103	SOM 6, SOM 8		
2 498-2 501	2 498-2 501		
STANDARD FREQUENCY AND TIME SIGNAL(2500 kHz)	STANDARD FREQUENCY AND TIME SIGNAL(2500 kHz) SOM1.5		ITU RR Article 26
2 501-2 502	2 501-2 502		
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5	Standard frequency and time signal reception	ITU RR Article 26

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Space Research	Space Research		
2 502-2 625	2 502-2 625		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7	Fixed and Mobile applications	
5.92 5.103 5.114	SOM 6, SOM 8		
2 625-2 650	2 625-2 650		
MARITIME MOBILE MARITIME RADIONAVIGATION	MARITIME MOBILE SOM2.1, SOM1.7 MARITIME RADIONAVIGATION SOM2.1		
5.92	SOM 8		
2 650-2 850	2 650-2 850		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7	Fixed and Mobile applications Maritime applications	
5.92 5.103	SOM 6, SOM 8		
2 850-3 025	2 850-3 025		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM4.1	Search and rescue operations at 3023 kHz	ITU RR Article 5.111 and Appendix 27
5.111 5.115			
3 025-3 155	3 025-3 155		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1		ITU RR Appendix 26
3 155-3 200	3 155-3 200		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7	Fixed and Mobile applications Maritime applications SRD: Inductive applications Low power hearing aids Mobile	
5.116 5.117	SOM 5, SOM 6, SOM 8		
3 200-3 230	3 200-3 230		
FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1, SOM1.7 BROADCASTING , SOM1.1	Fixed and Mobile applications Maritime applications SRD: Inductive applications	ITU RR Article 23

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Sound broadcasting in tropical zone	
5.116	SOM 5, SOM 6, SOM 8		
3 230-3 400	3 230-3 400		
FIXED MOBILE except aeronautical mobile BROADCASTING 5.113	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.7 BROADCASTING , SOM1.1	Fixed and Mobile applications Maritime applications SRD: Inductive applications Sound broadcasting in tropical zone	ITU RR Article 23
5.116 5.118	SOM 5, SOM 6, SOM 8		
3400-3500	3400-3500		
AERONAUTICAL MOBILE(R)	AERONAUTICAL MOBILE(R) SOM4.1	Aeronautical applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 9		
3 500-3 800	3 500-3 800		
AMATEUR FIXED MOBILE except aeronautical mobile	AMATEUR SOM1.1.1 FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.7	Fixed and Mobile applications Maritime applications Amateur (80 meter band)	ITU RR Articles 51 and 52
5.92	SOM 6, SOM 8, SOM 11		
3 800-3 900	3 800-3 900		
FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	FIXED SOM2.1 AERONAUTICAL MOBILE (OR) SOM2.1 LAND MOBILE SOM2.1	Fixed and Mobile applications	ITU RR Appendix 26
	SOM 6		
3 900-3 950	3 900-3 950		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1		ITU RR Appendix 26
5.123			
3 950-4 000	3 950-4 000		
FIXED BROADCASTING	FIXED SOM1.1 BROADCASTING SOM1.1	Fixed applications Sound broadcasting in tropical zone	ITU RR Article 23
4 000-4 063	4 000-4 063		
FIXED MARITIME MOBILE 5.127	FIXED SOM2.1 MARITIME MOBILE , SOM2.1, SOM1.7	Fixed applications Maritime applications	ITU RR Articles 51 and 52
5.126	SOM 8		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
4 063-4 438	4 063-4 438		
MARITIME MOBILE 5.79A ADD5.A111 5.109 5.110 5.130 5.131 5.132	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 4208/4219.5 kHz Maritime Safety Information (MSI) at 4210 kHz Meteorological and navigational warnings (MSINAVTEX) at 4209.5 kHz DSC distress calling at 4207.5 kHz Telex distress traffic at 4177.5 kHz Radiotelephony distress calling and traffic at 4125 kHz	ITU RR Appendices 15,17 and 25 NAVTEX operating characteristics in accordance with IMO procedures. (5.79A) The band may be used exceptionally by stations in the fixed service, fixed stations mean power should not exceed 50 W. (5.128)
5.128	SOM 8		
4 438-4 488	4 438-4 488		
FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.132A	FIXED SOM2.1 MOBILE except aeronautical mobile (R)SOM2.1 Radiolocation , SOM2.1	Fixed applications	Radiolocation applications are limited to oceanographic radars. (5.132A)
5.132B	SOM 8		
4 488-4 650	4 488-4 650		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1	Fixed and Mobile applications Maritime applications	ITU RR Appendix 17
	SOM 6, SOM 8		
4 650-4 700	4 650-4 700		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2		ITU RR Appendix 27
4 700-4 750	4 700-4 750		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1		ITU RR Appendix 26
4 750-4 850	4 750-4 850		
FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	FIXED SOM2.1 AERONAUTICAL MOBILE (OR) SOM2.1 LAND MOBILE SOM2.1	Fixed and Mobile applications	ITU RR Article 23 Sound broadcasting in tropical zone

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
BROADCASTING 5.113	BROADCASTING SOM1.1		
	SOM 6		
4 850-4 995	4 850-4 995		
FIXED LAND MOBILE BROADCASTING 5.113	FIXED SOM2.1 LAND MOBILE SOM2.1 BROADCASTING , SOM1.1	Fixed applications	ITU RR Article 23 Sound broadcasting in tropical zone
	SOM 6		
4 995-5 003	4 995-5 003		
STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz) SOM1.5	SRD: Inductive applications	ITU RR Article 26
	SOM 5		
5 003-5 005	5 003-5 005		
STANDARD FREQUENCY AND TIME SIGNAL Space research	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5 Space research	SRD: Inductive applications	ITU RR Article 26
	SOM 5		
5 005-5 060	5 005-5 060		
FIXED BROADCASTING 5.113	FIXED SOM2.1 BROADCASTING , SOM1.1	Fixed applications SRD: Inductive applications	ITU RR Article 23 Sound broadcasting in tropical zone
	SOM 5		
5 060-5 250	5 060-5 250		
FIXED Mobile except aeronautical mobile	FIXED SOM2.1 Mobile except aeronautical mobile SOM2.1	Fixed and Mobile applications Maritime applications SRD: Inductive applications	
5.133	SOM 5, SOM 6, SOM 8		
5 250-5 275	5 250-5 275		
FIXED MOBILE except aeronautical mobile Radiolocation 5.132A	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1 Radiolocation , SOM2.1	Fixed applications SRD: Inductive applications	Radiolocation applications are limited to oceanographic radars. (5.132A)
5.133A	SOM 5, SOM 6		
5 275-5 351.5	5 275-5 351.5		
FIXED	FIXED SOM2.1	Fixed and Mobile applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM2.1	SRD: Inductive applications	
	SOM 5, SOM 6		
5 351.5-5 366.5	5 351.5-5 366.5		
FIXED MOBILE except aeronautical mobile Amateur 5.133B	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1 Amateur , SOM1.1.2	SRD: Inductive applications	
	SOM 5, SOM 6		
5 366.5-5 450	5 366.5-5 450		
FIXED MOBILE except aeronautical mobile	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1	SRD: Inductive applications	
	SOM 5, SOM 6		
5 450-5 480	5 450-5 480		
FIXED AERONAUTICAL MOBILE (OR)	FIXED SOM2.1 AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	ITU RR Appendix 26 Aeronautical Mobileoff route
LAND MOBILE	LAND MOBILE SOM2.1		
	SOM 5, SOM 6		
5 480-5 680	5 480-5 680		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	Search and rescue operations at 5680 kHz SRD: Inductive applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
5.111 5.115	SOM 5		
5 680-5 730	5 680-5 730		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	ITU RR Appendix 26
5.111 5.115	SOM 5		
5 730-5 900	5 730-5 900		
FIXED LAND MOBILE	FIXED SOM2.1 LAND MOBILE SOM2.1	SRD: Inductive applications	
	SOM 5, SOM 6		
5 900-5950	5 900-5950		
BROADCASTING 5.134	BROADCASTING SOM1.1	Fixed and mobile applications SRD: Inductive applications	ITU RR Article 12 Fixed and mobile stations operate with minimum power (5.136) Short wave sound broadcasting

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.136	SOM 5, SOM 6		
5 950-6200	5 950-6200		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Short wave sound broadcasting
	SOM 5		
6 200-6 525	6 200-6 525		
MARITIME MOBILE 5.109 5.110 5.130 5.132 ADD5.B111	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 6312.5/6331 kHz Maritime Safety Information (MSI) at 6314 kHz DSC distress calling at 6312 kHz Telex distress traffic at 6268 kHz Radiotelephony distress calling and traffic at 6215 kHz SRD: Inductive applications	ITU RR Appendices 15, 17 and 25
5.137	SOM 5, SOM 8		
6 525-6 685	6 525-6 685		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	SRD: Inductive applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5		
6 685-6 765	6 685-6 765		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM1.2	SRD: Inductive applications	ITU RR Appendix 26
	SOM 5		
6 765-7 000	6 765-7 000		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1	SRD: Inductive applications	ISM usage in 67656795 kHz is subject to authorization from NTRA. (5.138) Fixed ISM
5.138	SOM 5, SOM 8		
7 000-7 100	7 000-7 050		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1 FIXED 7 050 -7 100 AMATEUR SOM1.1	SRD: Inductive applications Amateur applications	Amateur (40 meter band)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	AMATEUR-SATELLITE SOM1.1		
5.140 5.141 5.141A	SOM 5, SOM 11		
7 100-7 200	7 100-7 200		
AMATEUR	AMATEUR SOM1.1	SRD: Inductive applications	
5.141A 5.141B	SOM 5, SOM 6, SOM 8		
7 200-7 300	7 200-7 300		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Short wave sound broadcasting
	SOM 5		
7 300-7 400	7 300-7 400		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications	ITU RR Article 12 Fixed and mobile stations operate with minimum power. (5.143, 5.143B) Short wave sound broadcasting
5.143 5.143A 5.143B 5.143C 5.143D	SOM 5, SOM 6		
7 400-7 450	7 400-7 450		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Fixed and mobile stations operate with minimum power (5.143B) Short wave sound broadcasting
5.143B 5.143C	SOM 5, SOM 6		
7 450-8 100	7 450-8 100		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1	Maritime applications SRD: Inductive applications	
5.144	SOM 5, SOM 6, SOM 8		
8 100-8 195	8 100-8 195		
FIXED MARITIME MOBILE	FIXED SOM2.1 MARITIME MOBILE SOM2.1, SOM1.7	SRD: Inductive applications	
	SOM 5, SOM 8		
8 195-8 815	8 195-8 815		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MARITIME MOBILE 5.109 5.110 5.132 5.145 ADD5.B111	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 8415/8436.5 kHz DSC distress calling at 8414.5 kHz Telex distress traffic at 8376.5 kHz Radiotelephony distress calling and traffic at 8291 kHz Maritime Safety Information (MSI) at 8416.5 kHz Search and rescue operations at 8364 kHz SRD: Inductive applications	ITU RR Appendices 15,17 and 25
5.111	SOM 5, SOM 8		
8 815-8 965	8 815-8 965		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	SRD: Inductive applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5		
8 965-9 040	8 965-9 040		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	ITU RR Appendix 26
	SOM 5		
9 040-9 305	9 040-9 305		
FIXED	FIXED SOM2.1	SRD: Inductive applications	
	SOM 5		
9 305-9 355	9 305-9 355		
FIXED Radiolocation 5.145A	FIXED SOM2.1 Radiolocation , SOM2.1	SRD: Inductive applications	Radiolocation applications are limited to oceanographic radars (5.145A)
5.145B	SOM 5		
9 355-9 400	9 355-9 400		
FIXED	FIXED SOM2.1	SRD: Inductive applications	
	SOM 5		
9 400-9 500	9 400-9 500		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD:	ITU RR Article 12

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Inductive applications	Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
9 500-9 900	9 500-9 900		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Fixed stations total radiated power should not exceed 24 dBW. (5.147) Short wave sound broadcasting
5.147	SOM 5		
9 900-9 995	9 900-9 995		
FIXED	FIXED SOM2.1	SRD: Inductive applications	
	SOM 5		
9 995-10 003	9 995-10 003		
STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) SOM1.5	Search and rescue operations at 10003 kHz \pm 3 kHz SRD: Inductive applications	Article 5.111 ITU RR Article 26
5.111	SOM 5		
10 003-10 005	10 003-10 005		
STANDARD FREQUENCY AND TIME SIGNAL Space research	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5 Space research	Search and rescue operations at 10003 kHz \pm 3 kHz SRD: Inductive applications	Article 5.111 ITU RR Article 26
5.111	SOM 5		
10 005-10 100	10 005-10 100		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	Search and rescue operations at 10003 kHz \pm 3 kHz SRD: Inductive applications	Article 5.111 ITU RR Appendix 27 For Airground communications (HF voice and data)
5.111	SOM 5		
10 100-10 150	10 100-10 150		
FIXED Amateur	FIXED SOM2.1 Amateur SOM1.1.2	Amateur applications SRD:	Amateur (30 meter band) User license required

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Inductive applications	
	SOM 5, SOM 11		
10 150-11 175	10 150-11 175		
FIXED Mobile except aeronautical mobile (R)	FIXED SOM2.1 Mobile except aeronautical mobile (R) SOM2.1	Maritime applications SRD: Inductive applications	
	SOM 5, SOM 8		
11 175-11 275	11 175-11 275		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	ITU RR Appendix 26
	SOM 5		
11 275-11 400	11 275-11 400		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	SRD: Inductive applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5		
11 400-11 600	11 400-11 600		
FIXED	FIXED SOM2.1	SRD: Inductive applications	
	SOM 5		
11 600-11 650	11 600-11 650		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications	ITU RR Article 12 Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
11 650-12 050	11 650-12 050		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Fixed stations total radiated power should not exceed 24 dBW. (5.147) Short wave sound broadcasting
5.147	SOM 5		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
12 050-12 100	12 050-12 100		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications	ITU RR Article 12 Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
12 100-12 230	12 100-12 230		
FIXED	FIXED	SRD: Inductive applications	
	SOM 5		
12 230-13 200	12 230-13 200		
MARITIME MOBILE 5.109 5.110 5.132 5.145 ADD5.B111	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 12577.5/12657 kHz DSC distress calling at 12577 kHz Telex distress traffic at 12520 kHz Radiotelephony distress calling and traffic at 12290 kHz Maritime Safety Information (MSI) at 12579 kHz SRD: Inductive applications Active Medical Implants	ITU RR Appendices 15,17 and 25
	SOM 5, SOM 8		
13 200-13 260	13 200-13 260		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications Active Medical Implants	ITU RR Appendix 26
	SOM 5		
13 260-13 360	13 260-13 360		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	SRD: Inductive applications Active Medical Implants	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5		
13 360-13 410	13 360-13 410		
FIXED RADIO ASTRONOMY	FIXED SOM2.1.1 RADIO ASTRONOMY SOM1.4	SRD: Inductive applications Active Medical Implants	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.149	SOM 5, SOM 16		
13 410-13 450	13 410-13 450		
FIXED Mobile except aeronautical mobile (R)	FIXED SOM2.1 Mobile except aeronautical mobile (R) SOM2.1	SRD: Inductive applications Active Medical Implants	
	SOM 5, SOM 6		
13 450-13 550	13 450-13 550		
FIXED Mobile except aeronautical mobile(R) Radiolocation 5.132A	FIXED SOM2.1 Mobile except aeronautical mobile(R) SOM2.1 Radiolocation SOM2.1	SRD: Inductive applications Active Medical Implants	Radiolocation applications are limited to oceanographic radars. (5.132A)
5.149A	SOM 5, SOM 6		
13 550-13 570	13 550-13 570		
FIXED Mobile except aeronautical mobile (R)	FIXED SOM2.1 Mobile except aeronautical mobile (R) SOM2.1	SRD: Inductive applications Active Medical Implants	For ISM in 13 55313 567 kHz. (5.150)
5.150	SOM 5, SOM 6		
13 570-13600	13 570-13 600		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications Active Medical Implants	ITU RR Article 12 Fixed and mobile stations operate with minimum power. (5.151) Short wave sound broadcasting
5.151	SOM 5, SOM 6		
13 600 -13800	13 600 -13800		
BROADCASTING	BROADCASTING	SRD: Inductive applications Active Medical Implants	Short wave sound broadcasting
	SOM 5		
13 800-13 870	13 800-13 870		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications Active Medical Implants	ITU RR Article 12 Fixed and mobile stations operate with minimum power. (5.151) Short wave sound broadcasting
5.151	SOM 5, SOM 6		
13 870-14 000	13 870-14 000		
FIXED	FIXED SOM2.1	SRD:	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R) SOM2.1	Inductive applications Active Medical Implants	
	SOM 5SOM 6		
14 000-14 250	14 000-14 250		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1	Amateur applications SRD: Inductive applications Active Medical Implants	
	SOM 5, SOM 11		
14250-14 350	14250-14 350		
AMATEUR	AMATEUR SOM1.1	Amateur applications SRD: Inductive applications Active Medical Implants	
5.152	SOM 5, SOM 11		
14 350-14 990	14 350-14 990		
FIXED Mobile except aeronautical mobile (R)	FIXED SOM2.1 Mobile except aeronautical mobile (R) SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
14 990-15 005	14 990-15 005		
STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) SOM1.5	Search and rescue operations at 14993 kHz SRD: Inductive applications Active Medical Implants	Article 5.111 ITU RR Article 26
5.111	SOM 5		
15 005-15 010	15 005-15 010		
STANDARD FREQUENCY AND TIME SIGNAL Space research	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5 Space research	SRD: Inductive applications Active Medical Implants	ITU RR Article 26
	SOM 5		
15 010-15 100	15 010-15 100		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	ITU RR Appendix 26 Aeronautical mobileoff route

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Active Medical Implants	
	SOM 5		
15 100-15 600	15 100-15 600		
BROADCASTING	BROADCASTING SOM1.1	Broadcasting applications SRD: Inductive applications Active Medical Implants	Short wave sound broadcasting
	SOM 5		
15 600-15 800	15 600-15 800		
BROADCASTING 5.134	BROADCASTING SOM1.1	Fixed applications SRD: Inductive applications Active Medical Implants	ITU RR Article 12 Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
15 800-16 100	15 800-16 100		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
5.153	SOM 5		
16 100-16 200	16 100-16 200		
FIXED Radiolocation 5.145A	FIXED SOM2.1 Radiolocation SOM2.1	SRD: Inductive applications Active Medical Implants	
5.145B	SOM 5		
16 200-16 360	16 200-16 360		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
16 360-17 410	16 360-17 410		
MARITIME MOBILE 5.109 5.110 5.132 5.145 ADD5.B111	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 16805/16903 kHz DSC distress calling at 16804.5 kHz Telex distress traffic at 16695 kHz Radiotelephony distress calling and traffic at 16420 kHz Maritime Safety Information (MSI) at 16806.5 kHz	ITU RR Appendices 15, 17 and 25

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Maritime applications SRD: Inductive applications Active Medical Implants	
	SOM 5, SOM 8		
17 410-17 480	17 410-17 480		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
17 480-17 550	17 480-17 550		
BROADCASTING 5.134	BROADCASTING , SOM1.1	SRD: Inductive applications Active Medical Implants	ITU RR Article 12 Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
17 550-17 900	17 550-17 900		
BROADCASTING	BROADCASTING SOM1.1	Broadcasting applications SRD: Inductive applications Active Medical Implants	Short wave sound broadcasting
	SOM 5		
17 900-17 970	17 900-17 970		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	Aeronautical applications SRD: Inductive applications Active Medical Implants	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5, SOM 9		
17 970-18 030	17 970-18 030		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications Active Medical Implants	ITU RR Appendix 26
	SOM 5		
18 030-18 052	18 030-18 052		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	SOM 5		
18 052-18 068	18 052-18 068		
FIXED Space research	FIXED SOM2.1 Space research	SRD: Inductive applications Active Medical Implants	
	SOM 5		
18 068-18 168	18 068-18 168		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1	Amateur applications SRD: Inductive applications Active Medical Implants	Amateur (17meter band) User license required
5.154	SOM 5, SOM 11		
18 168-18 780	18 168-18 780		
FIXED Mobile except aeronautical mobile	FIXED SOM2.1 Mobile except aeronautical mobile SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
18 780-18 900	18 780-18 900		
MARITIME MOBILE	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 18898.5 kHz SRD: Inductive applications Active Medical Implants	ITU RR Appendix 17
	SOM 5		
18 900-19 020	18 900-19 020		
BROADCASTING 5.134	BROADCASTING SOM1.1	SRD: Inductive applications Active Medical Implants	ITU RR Article 12 Fixed stations operate with minimum power. (5.146) Short wave sound broadcasting
5.146	SOM 5		
19 020-19 680	19 020-19 680		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
19 680-19 800	19 680-19 800		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MARITIME MOBILE 5.132	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 19703.5 kHz Maritime Safety Information (MSI) at 19680.5 kHz SRD: Inductive applications Active Medical Implants	ITU RR Appendices 15 and 17
	SOM 5		
19 800-19 990	19 800-19 990		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications Active Medical Implants	
	SOM 5		
19 990-19 995	19 990-19 995		
STANDARD FREQUENCY AND TIME SIGNAL Space research	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5 Space research	Search and rescue operations at 19993 kHz \pm 3 kHz SRD: Inductive applications Active Medical Implants	Article 5.111 ITU RR Article 26
5.111	SOM 5		
19 995-20 010	19 995-20 010		
STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) SOM1.5	Search and rescue operations at 19993 kHz \pm 3 kHz SRD: Inductive applications Active Medical Implants	Article 5.111 ITU RR Article 26
5.111	SOM 5		
20 010-21 000	20 010-21 000		
FIXED Mobile	FIXED SOM2.1 Mobile SOM2.1	Fixed applications SRD: Inductive applications	
	SOM 5		
21 000-21 450	21 000-21 450		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1	Amateur applications SRD: Inductive applications	
	SOM 5, SOM 11		
21 450-21 850	21 450-21 850		
BROADCASTING	BROADCASTING SOM1.1	SRD:	Short wave sound broadcasting

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Inductive applications	
	SOM 5		
21 850-21 870	21 850-21 870		
FIXED 5.155A	FIXED SOM2.1	Fixed applications SRD: Inductive applications	
5.155	SOM 5		
21 870-21 924	21 870-21 924		
FIXED 5.155B	FIXED SOM1.1	SRD: Inductive applications	For the fixed service usage for provision of aircraft flight safety. (5.155B)
	SOM 5		
21 924-22 000	21 924-22 000		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R) SOM1.2	SRD: Inductive applications	ITU RR Appendix 27 For Airground communications (HF voice and data)
	SOM 5		
22 000-22 855	22 000-22 855		
MARITIME MOBILE 5.132 ADD5.B111	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 22374.5/22444 kHz Maritime Safety Information (MSI) at 22376 kHz Maritime applications SRD: Inductive applications	ITU RR Appendices 15, 17 and 25
5.156	SOM 5, SOM 8		
22 855-23 000	22 855-23 000		
FIXED	FIXED SOM2.1	Fixed applications SRD: Inductive applications	
5.156	SOM 5		
23 000-23 200	23 000-23 200		
FIXED Mobile except aeronautical mobile (R)	FIXED SOM2.1 Mobile except aeronautical mobile (R) SOM2.1	Fixed applications SRD: Inductive applications	
5.156	SOM 5, SOM 8		
23 200-23 350	23 200-23 350		
FIXED 5.156A AERONAUTICAL MOBILE (OR)	FIXED SOM2.1 AERONAUTICAL MOBILE (OR) SOM2.1	SRD: Inductive applications	The fixed service usage is limited to provision of aircraft flight safety. (5.156A) Aeronautical mobileoff route

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	SOM 5		
23 350-24 000	23 350-24 000		
FIXED MOBILE except aeronautical mobile 5.157	FIXED SOM2.1 MOBILE except aeronautical mobile , SOM2.1	Fixed applications SRD: Inductive applications	The maritime mobile service usage limited to intership radiotelegraphy. (5.157)
	SOM 5, SOM 8		
24 000-24 450	24 000-24 450		
FIXED LAND MOBILE	FIXED SOM2.1 LAND MOBILE SOM2.1	SRD: Inductive applications	
	SOM 5		
24 450-24 600	24 450-24 600		
FIXED LAND MOBILE Radiolocation 5.132A	FIXED SOM2.1 LAND MOBILE SOM2.1 Radiolocation SOM2.1	Fixed applications SRD: Inductive applications	Radiolocation applications are limited to oceanographic radars. (5.132A)
5.158	SOM 5		
24 600-24 890	24 600-24 890		
FIXED LAND MOBILE	FIXED SOM2.1 LAND MOBILE SOM2.1	Fixed applications SRD: Inductive applications	
	SOM 5		
24 890-24 990	24 890-24 990		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1	Amateur applications SRD: Inductive applications	
	SOM 5, SOM 11		
24 990-25 005	24 990-25 005		
STANDARD FREQUENCY AND TIME SIGNAL (25000kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25000kHz) SOM1.5	SRD: Inductive applications	ITU RR Article 26
	SOM 5		
25 005-25 010	25 005-25 010		
STANDARD FREQUENCY AND TIME SIGNAL Space research	STANDARD FREQUENCY AND TIME SIGNAL SOM1.5 Space research	SRD: Inductive applications	ITU RR Article 26
	SOM 5		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
25 010-25 070	25 010-25 070		
FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile SOM2.1	Mobile applications SRD: Inductive applications	
	SOM 5, SOM 6, SOM 8		
25 070-25 210	25 070-25 210		
MARITIME MOBILE	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 25208.5 kHz SRD: Inductive applications	ITU RR Appendix 17
	SOM 5, SOM 8		
25 210-25 550	25 210-25 550		
FIXED MOBILE except aeronautical mobile	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1	Mobile applications SRD: Inductive applications	
	SOM 5, SOM 6, SOM 8		
25 550-25 670	25 550-25 670		
RADIO ASTRONOMY	RADIO ASTRONOMY SOM1.4	SRD: Inductive applications	
5.149	SOM 5, SOM 16		
25 670-26 100	25 670-26 100		
BROADCASTING	BROADCASTING SOM1.1	SRD: Inductive applications	Short wave sound broadcasting
	SOM 5		
26 100-26 175	26 100-26 175		
MARITIME MOBILE 5.132	MARITIME MOBILE SOM2.1, SOM1.7	International DSC calling at 26121 kHz Maritime Safety Information (MSI) at 26100.5 kHz SRD: Inductive applications	ITU RR Appendices 15 and 17
	SOM 5, SOM 8		
26 175-26 200	26 175-26 200		
FIXED MOBILE except aeronautical mobile	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1	Fixed and mobile applications SRD: Inductive applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	SOM 5, SOM 6, SOM 8		
26 200-26 350	26 200-26 350		
FIXED MOBILE except aeronautical mobile Radiolocation 5.132A	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.1.1 Radiolocation , SOM2.1	Fixed and mobile applications SRD: Inductive applications	Radiolocation applications are limited to oceanographic radars. (5.132A) Onsite private paging Citizen band radio Low power devices ISM
5.133A	SOM 5, SOM 6, SOM 8		
26 350-27 500	26 350-27 500		
FIXED MOBILE except aeronautical mobile	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.1.1	Fixed and mobile applications SRD: Inductive applications Wireless control devices Measurement equipment	For ISM in 26 95727 283 kHz. (5.150) Onsite private paging Citizen band radio Low power devices ISM
5.150	SOM 5, SOM 6, SOM 8		
27.5-28	27.5-28		
METEOROLOGICAL AIDS FIXED MOBILE	METEOROLOGICAL AIDS FIXED SOM2.1 MOBILE SOM2.1	Fixed and mobile applications Meteorological applications SRD: Inductive applications	Onsite low power paging
	SOM 5, SOM 6		
28-29.7	28-29.7		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1	Amateur applications SRD: Inductive applications	
	SOM 5, SOM 11		
29.7-30.005	29.7-30.005		
FIXED	FIXED SOM2.1	Fixed applications	
MOBILE	MOBILE SOM2.1	SRD: Inductive applications Radio Microphone Active Medical Implants	
	SOM 5, SOM 6	SOM 5, SOM 6	
30.005-30.01	30.005-30.01		
SPACE OPERATION (satellite identification) FIXED MOBILE	SPACE OPERATION (satellite identification) SOM1.3 FIXED SOM2.1 MOBILE SOM2.1	SRD: Radio Microphone Active Medical Implants	Satellite identification

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE RESEARCH	SPACE RESEARCH		
	SOM 5, SOM 6		
30.01-37.5	30.01-37.5		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1, SOM1.1.1	Fixed and mobile applications SRD: Radio Microphone Active Medical Implants Wireless control devices	
	SOM 5, SOM 6		
37.5-38.25	37.5-38.25		
FIXED MOBILE Radio astronomy	FIXED SOM2.1 MOBILE SOM2.1 Radio astronomy	SRD: Radio Microphone	
5.149	SOM 5, SOM 6, SOM 16		
38.25-39	38.25-39		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1, SOM1.1.1	Mobile applications SRD: Radio Microphone	
	SOM 5, SOM 6		
39-39.95	39-39.5		
FIXED MOBILE Radiolocation 5.132A	FIXED SOM2.1 MOBILE SOM2.1 Radiolocation SOM2.1	Mobile applications SRD: Radio Microphone	Radiolocation applications are limited to oceanographic radars. (5.132A)
5.159	SOM 5, SOM 6		
39.5-39.986	39.5-39.986		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1	SRD: Radio Microphone	
	SOM 5, SOM 6		
39.986-40	39.986-40		
FIXED MOBILE Space research	FIXED MOBILE SOM2.1 Space research	SRD: Radio Microphone	
	SOM 5, SOM 6		
40-40.02	40-40.02		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112	FIXED MOBILE SOM2.1 Earth exploration-satellite (active)	SRD: Radio Microphone	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Space research	Space research		
	SOM 5, SOM 6		
40.02-40.98	40.02-40.98		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112	FIXED MOBILE SOM2.1 Earth exploration-satellite (active)	Fixed and Mobile applications SRD: Radio Microphone Wireless control devices Measurement equipment	For ISM in 40.6640.70 MHz. (5.150)
5.150	SOM 5, SOM 6		
40.98-41.015	40.98-41.015		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112 Space research	FIXED MOBILE SOM2.1 Earth exploration-satellite (active) Space research	SRD: Radio Microphone Wireless control devices Measurement equipment	Land Mobile Low power cordless telephony
5.160 5.161	SOM 5, SOM 6		
41.015-42	41.015-42		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112	FIXED SOM2.1 MOBILE SOM2.1 Earth exploration-satellite (active)	Fixed applications SRD: Radio Microphone Measurement and Remotecontrol equipment	
5.160 5.161 5.161A	SOM 5, SOM 6		
42-42.5	42-42.5		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112 Radiolocation 5.132A	FIXED SOM2.1 MOBILE SOM2.1 Earth exploration-satellite (active) Radiolocation	SRD: Radio Microphone Measurement and Remotecontrol equipment	
5.160 5.161B	SOM 5, SOM 6		
42.5-44	42.5-44		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112	FIXED SOM2.1 MOBILE SOM2.1 Earth exploration-satellite (active)	Fixed and mobile applications SRD:	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Radio Microphone Measurement and Remotecontrol equipment Cordless shortrange telephones	
5.160 5.161 5.161A	SOM 5, SOM 6		
44-47	44-47		
FIXED MOBILE Earth exploration-satellite (active) ADD 5.A112	FIXED MOBILE SOM2.1 Earth exploration-satellite (active)	SRD: Radio Microphone Measurement and Remotecontrol equipment Cordless shortrange telephones	
5.162 5.162A	SOM 5, SOM 6		
47-50	47-50		
BROADCASTING Earth exploration-satellite (active) ADD 5.A112	FIXED MOBILE except aeronautical mobile BROADCASTING SOM1.1 Earth exploration-satellite (active)	Broadcasting systems SRD: Nonspecific shortrange devices Cordless shortrange telephones	ITU GE89 Plan VHF analogue television broadcasting Band I (TV channels 2, 3 and 4)
5.162A 5.163 5.164 5.165	SOM 5, SOM 6		
50-52	50-52		
BROADCASTING Amateur 5.166A 5.166B 5.166C, 5.166D 5.166E 5.169 5.169A, 5.169B	FIXED MOBILE except aeronautical mobile BROADCASTING SOM1.1 Amateur		ITU GE89 Plan
5.162A 5.164 5.165	SOM 6		
52-68	52-68		
BROADCASTING	FIXED MOBILE except aeronautical mobile BROADCASTING SOM1.1	Broadcasting systems	ITU GE89 Plan
5.162A 5.163 5.164 5.165 5.169, 5.169A 5.169B 5.171	SOM 6		
68-74.8	68-74.8		
FIXED	FIXED	Fixed and mobile applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM2.1 SOM1.1		
5.149 5.175 5.177 5.179	SOM 6, SOM 16		
74.8-75.2	74.8-75.2		
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1	ILS/Marker beacons at 75 MHz	The frequency 75 MHz is assigned to marker beacons and needs protection in the frequency range of 74.8 MHz and 75.2 MHz. (5.180) ICAO Annex 10 Aeronautical radionavigation(Instrument Landing Markers)
5.180 5.181	SOM 6, SOM 9		
75.2-87.5	75.2-87.5		
FIXED	FIXED	Fixed and mobile applications	
MOBILE except aeronautical Mobile	MOBILE except aeronautical Mobile SOM2.1		
5.175 5.179 5.187	SOM 6		
87.5-100	87.5-100		
BROADCASTING	BROADCASTING SOM1.1	FM sound Broadcasting systems SRD: Wireless Audio Applications Radio Microphone	FM sound broadcasting (Geneva 1984 Plan)
5.190	SOM 5		
100-108	100-104		
BROADCASTING	BROADCASTING SOM1.1	FM sound Broadcasting systems	FM sound broadcasting (Geneva 1984 Plan)
	104-108	SRD: Wireless Audio Applications Radio Microphone	
5.192 5.194	SOM 5		
108-117.975	108-117.975		
ERONAUTICAL- RADIONAVIGATION	ERONAUTICAL- RADIONAVIGATION SOM4.1	Aeronautical radionavigation applications VHF omnidirectional radio range (VOR) in 108 117.975 MHz	The allocation to Aeronautical mobile (R) service is in accordance with RR Resolution 413 (Rev.WRC-07). (5.197A) ICAO Annex 10 For ILS (localizer) in 108 112 MHz For VDL mode 4 in 112–117.975 MHz

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			For groundbased augmentation system (GBAS) in 108117.975 MHz Can be used for AM(R)S applications compatible with ICAO Annex 10 SARP requirements in 112117.975 MHz
5.197 5.197A	SOM 9		
117.975-137	117.975-137		
AERONAUTICAL MOBILE (R) AERONAUTICAL MOBILE-SATELLITE (R) ADD 5.A17 ADD 5.B17	AERONAUTICAL MOBILE (R) SOM4.1 AERONAUTICAL MOBILE-SATELLITE (R)	AEROSAR and EPIRB at 121.5 MHz Search and rescue operations at 121.5 MHz Aeronautical applications	Article 5.111 ITU RR Appendix 15 Auxiliary aeronautical emergency on 123.1 MHz. (5.200) ICAO Annex 10 For aeronautical emergency VHF airground and airair communications (voice and data)
5.111 5.200 5.201 5.202	SOM 9		
137-137.025	137-137.025		
SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to- Earth) Fixed Mobile except aeronautical mobile (R)	SPACE OPERATION (space-to-Earth) SOM2.1 METEOROLOGICAL-SATELLITE(space-to-Earth) MOBILE-SATELLITE (space-to-Earth) , SOM2.1 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) SOM2.1		Resolution 739 (Rev.WRC19) applies The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209)
5.204 5.205 5.206 5.207 5.208			
137.025-137.175	137.025-137.175		
SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to- Earth) Fixed Mobile except aeronautical mobile (R)	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE(space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) SOM2.1		Resolution 739 (Rev.WRC19) applies The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.209	Mobile-satellite (space-to-Earth) SOM2.1		
5.204 5.205 5.206 5.207 5.208			
137.175-137.825	137.175-137.825		
SPACE OPERATION (space-to-Earth) 5.203C 5.209A METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R)	SPACE OPERATION (space-to- Earth) , SOM2.1 METEOROLOGICAL-SATELLITE(space-to- Earth) MOBILE-SATELLITE (space-to- Earth) , SOM2.1 SPACE RESEARCH (space-to- Earth) Fixed Mobile except aeronautical mobile (R)SOM2.1		The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209) Resolution 739 (Rev.WRC19) applies
5.204 5.205 5.206 5.207 5.208			
137.825 -138	137.825 -138		
SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to- Earth) Fixed Mobile-satellite (space-to- Earth)5.208A 5.208B 5.209 Mobile except aeronautical mobile (R)	SPACE OPERATION (space-to- Earth) SOM2.1 METEOROLOGICAL-SATELLITE(space-to- Earth) SPACE RESEARCH (space-to- Earth) Fixed Mobile-satellite (space-to-Earth) , SOM2.1 Mobile except aeronautical mobile (R) SOM2.1, SOM1.1		The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209) Resolution 739 (Rev.WRC19) applies
5.204 5.205 5.206 5.207 5.208			
138-143.6	138-143.6		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1 LAND MOBILE FIXED MARITIME MOBILE		
5.210 5.211 5.212 5.214			
143.6-143.65	143.6-143.65		
AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to- Earth)	AERONAUTICAL MOBILE (OR) SOM2.1 SPACE RESEARCH (space-to-Earth) LAND MOBILE		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	FIXED MARITIME MOBILE		
5.211 5.212 5.214			
143.65-144	143.65-144		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR) SOM2.1 LAND MOBILE FIXED MARITIME MOBILE		
5.210 5.211 5.212 5.214			
144-146	144-146		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1		
5.216	SOM 12		
146-148	146-148		
FIXED MOBILE except aeronautical mobile (R)	FIXED SOM1.1 MOBILE except aeronautical mobile (R) SOM1.1	Fixed and mobile applications	
	SOM 6		
148-149.9	148-149.9		
FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209	FIXED SOM2.1 MOBILE except aeronautical mobile (R) SOM2.1 MOBILE-SATELLITE (Earth-to-space) , SOM1.1.1	Fixed and mobile applications	The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209) Fixed wide area paging Land mobile wide area paging
5.218 5.218A 5.219 5.221	SOM 6		
149.9-150.05	149.9-150.05		
MOBILE-SATELLITE (Earth-to-space) 5.209 5.220	MOBILE-SATELLITE (Earth-to- space) SOM1.1		The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209)
150.05-153	150.05-153		
FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 RADIO ASTRONOMY	Fixed and mobile applications	
5.149	SOM 6, SOM 16		
153-154	153-154		
FIXED	FIXED SOM1.1	Fixed and mobile applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile (R) Meteorological Aids	MOBILE except aeronautical mobile (R) SOM3.1, SOM1.1, SOM2.1 Meteorological Aids SOM1.6		
	SOM 6		
154-156.4875	154-156.4875		
FIXED	FIXED SOM1.1	The frequency 156.3 (VHFCH06) MHz may be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations.	ITU RR Appendices 15 and 18
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R) SOM1.1	Maritime applications Fixed and mobile applications	In the band 156156.4875 MHz priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226) ITU Articles 31 and 52, and Appendix 18
5.225A 5.226	SOM 6, SOM 8		
156.4875-156.5625	156.4875-156.5125		
MARITIME MOBILE (distress and calling via DSC)	MARITIME MOBILE (distress and calling via DSC) SOM1.7 FIXED LAND MOBILE 156.5125-156.5375 MARITIME MOBILE (distress and calling via DSC) SOM1.7 156.5375- 156.5625 MARITIME MOBILE (distress and calling via DSC) SOM1.7 FIXED LAND MOBILE	International DSC distress, urgency, safety and calling at 156.525 MHz (VHFCH70) Search and rescue operations at 156.525 MHz Maritime applications Fixed and mobile applications	ITU RR Appendix 15 The conditions for the use of this band are contained in Articles 31 and 52, and in Appendix 18. (5.226) This band is also allocated to the fixed and land mobile services on a primary basis. (5.227) Maritime mobile international distress, safety & calling frequencies
5.111 5.226 5.227	SOM 6, SOM 8		
156.5625-156.7625	156.5625-156.7625		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED	FIXED SOM1.1	Shiptoship communications relating to the safety of navigation at 156.650 MHz (VHFCH13)	ITU RR Appendices 15 and 18
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R) SOM1.1	Maritime applications Fixed and mobile applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226) ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
156.7625-156.7875	156.7625-156.7875		
MARITIME MOBILE	MARITIME MOBILE SOM1.7	Maritime applications	The conditions for the use of this band are contained in Articles 31 and 52, and in Appendix 18. (5.226)
Mobile satellite (Earth-to-space)	Mobile satellite (Earth-to-space) SOM1.1		The use of this band by the mobilesatellite service (Earthto-space) is limited to the reception of automatic identification system (AIS) emissions of longrange AIS broadcast messages. (5.228)
5.111 5.226 5.228	SOM 8		
156.7875-156.8125	156.7875-156.8125		
MARITIME MOBILE (distress and calling)	MARITIME MOBILE (distress and calling) SOM1.7	International distress, urgency, safety and calling by radiotelephony at 156.8 MHz (VHFCH16) Search and rescue operations at 156.8 MHz Maritime applications	Article 5.111 ITU RR Appendix 15 The conditions for the use of this band are contained in Articles 31 and 52, and in Appendix 18. (5.226)
5.111 5.226	SOM 8		
156.8125-156.8375	156.8125-156.8375		
MARITIME MOBILE	MARITIME MOBILE SOM1.7	Maritime applications	The conditions for the use of this band are contained in Articles 31 and 52, and in Appendix 18. (5.226)
Mobile satellite (Earth-to-space)	Mobile satellite (Earth-to-space) SOM1.1		The use of this band by the mobilesatellite service (Earthto-space) is limited to the reception of automatic identification system (AIS) emissions of longrange AIS broadcast messages. (5.228)
5.111 5.226 5.228	SOM 8		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
156.8375-157.1875	156.8375-157.1875		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical Mobile	MOBILE except aeronautical Mobile SOM1.1	Fixed and mobile applications	ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
157.1875-157.3375	157.1875-157.3375		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1	Mobile applications	Resolution 739 (Rev.WRC19) applies
Maritime mobile-satellite 5.208A 5.208B 5.228AB 5.228AC	Maritime mobile-satellite		ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
157.3375-161.7875	157.3375-161.7875		
FIXED	FIXED SOM1.1	Maritime applications	In the bands 157.3375-157.45 MHz, 160.6160-160.975 MHz and 161.475-161.7875 MHz priority is given to frequencies assigned to the stations of the maritime mobile service, however, they may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1	Fixed and mobile applications	ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
161.7875-161.9375	161.7875-161.9375		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1	Fixed and mobile applications	Resolution 739 (Rev.WRC19) applies

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Maritime mobile-satellite 5.208A 5.208B 5.228AB 5.228AC	Maritime mobile-satellite		ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
161.9375-161.9625	161.9375-161.9625		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile Maritime mobile-satellite (Earth- to space) 5.228AA	MOBILE except aeronautical mobile SOM1.1 Maritime mobile-satellite (Earth- to space) , SOM1.1		ITU Articles 31 and 52, and Appendix 18
5.226	SOM 6, SOM 8		
161.9625-161.9875	161.9625-161.9875		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.228F	MOBILE except aeronautical mobile SOM1.1 Mobile-satellite (Earth-to-space) , SOM1.1	Fixed links	ITU Articles 31 and 52, and Appendix 18
5.226 5.228A 5.228B	SOM 6, SOM 8		
161.9875-162.0125	161.9875-162.0125		
FIXED	FIXED SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226)
MOBILE except aeronautical mobile Maritime mobile-satellite (Earth- to space) 5.228AA	MOBILE except aeronautical mobile SOM1.1 Maritime mobile-satellite (Earth- to space) SOM1.1	Fixed links	ITU Articles 31 and 52, and Appendix 18
5.226 5.229	SOM 6, SOM 8		
162.0125-162.0375	162.0125-162.0375		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.228F	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 Mobile-satellite (Earth-to-space) , SOM1.1	Maritime applications	In this band priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226) ITU Articles 31 and 52, and Appendix 18
5.226 5.228A 5.228B 5.229	SOM 6, SOM 8		
162.0375-174	162.0375-174		
FIXED MOBILE except aeronautical Mobile	FIXED SOM1.1 MOBILE except aeronautical Mobile SOM1.1	Fixed and mobile applications SRD: Wireless Meter Reading Wireless Audio Applications Radio Microphone Alarms Applications Measurement and Remotecontrol equipment Nonspecific ShortRange Devices	In the band 162.0375162.05 MHz priority is given to frequencies assigned to the stations of the maritime mobile service, however, it may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations. (5.226) ITU Articles 31 and 52, and Appendix 18
5.226 5.229	SOM 5, SOM 6, SOM 8		
174-223	174-216		
BROADCASTING	BROADCASTING SOM1.1 Fixed Mobile 216-223 BROADCASTING SOM1.1 Fixed Mobile AERONAUTICAL RADIONAVIGATION	TV Broadcasting (terrestrial VHF TV Band III) Fixed and mobile applications SRD: Wireless Audio Applications Radio Microphone	ITU GE06 Plan VHF analogue Television Broadcasting Band III (channels 512)
5.235 5.237 5.243	SOM 5, SOM 6		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
223-230	223-225		
BROADCASTING Fixed Mobile	BROADCASTING SOM1.1 Fixed SOM1.1 Mobile SOM1.1 AERONAUTICAL RADIONAVIGATION	TV Broadcasting (terrestrial VHF TV Band III) Fixed Mobile	ITU GE06 Plan VHF analogue Television Broadcasting Band III (channels 5-12)
	225-230		
	BROADCASTING SOM1.1 Fixed SOM1.1 Mobile SOM1.1		
5.243 5.246 5.247			
230-235	230-235		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1		
5.247 5.251 5.252			
235-267	235-267		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1	Search and rescue operations and operation of survival craft stations and equipment used for survival purposes at 243 MHz Mobile applications	Article 5.111 The bands 235322 MHz and 335.4399.9 MHz may be used by the mobile satellite service, subject to agreement obtained under No. 9.21. (5.254)
5.111 5.252 5.254 5.256 5.256A	SOM 6		
267-272	267-272		
FIXED MOBILE Space operation (space-to-Earth)	FIXED SOM2.1 MOBILE SOM2.1 Space operation (space-to-Earth)	Mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobile satellite service, subject to agreement obtained under No. 9.21. (5.254)
5.254 5.257	SOM 6		
272-273	272-273		
SPACE OPERATION (space-to-Earth) FIXED MOBILE	SPACE OPERATION (space-to-Earth) FIXED SOM2.1 MOBILE SOM2.1	Mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobile satellite service, subject to agreement obtained under No. 9.21. (5.254)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.254	SOM 6		
273-312	273-312		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1	Mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
5.254	SOM 6		
312-315	312-315		
FIXED MOBILE Mobile-satellite (Earth-to-space) , 5.254 5.255	FIXED SOM2.1 MOBILE SOM2.1 Mobile-satellite (Earth-to-space) , SOM2.1	Fixed and mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
	SOM 6		
315-322	315-322		
FIXED MOBILE	FIXED SOM2.1 MOBILE SOM2.1	Fixed and mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
5.254	SOM 6		
322-328.6	322-328.6		
FIXED MOBILE RADIO ASTRONOMY	FIXED SOM2.1 MOBILE SOM2.1 RADIO ASTRONOMY		
5.149	SOM 6, SOM 16		
328.6-335.4	328.6-335.4		
AERONAUTICAL RADIONAVIGATION 5.258	AERONAUTICAL- RADIONAVIGATION SOM4.1	For ILS glide path in conjunction with the ILS localizer in 108–112 MHz Mobile applications	Limited to Instrument Landing Systems ILS (glide path). (5.258) ICAO Annex 10
5.259	SOM 6, SOM 9		
335.4-387	335.4-387		
FIXED MOBILE	FIXED SOM2.1, SOM3.1 MOBILE SOM2.1, SOM3.1	Fixed and mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
5.254	SOM 6		
387-390	387-390		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED	FIXED SOM2.1, SOM3.1	Fixed and mobile applications	Resolution 739 (Rev.WRC19) applies (5.208B)
MOBILE	MOBILE SOM2.1, SOM3.1		The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255	Mobile-satellite (space-to- Earth)		Public safety & emergency network
	SOM 6		
390-399.9	390-399.9		
FIXED	FIXED SOM2.1, SOM3.1	Fixed and mobile applications	The bands 235322 MHz and 335.4399.9 MHz may be used by the mobilesatellite service, subject to agreement obtained under No. 9.21. (5.254)
MOBILE	MOBILE SOM2.1, SOM3.1		Public safety & emergency network
5.254	SOM 6		
399.9-400.05	399.9-400.05		
MOBILE-SATELLITE (Earth-to- space) 5.209 5.220 5.260A 5.260B	MOBILE-SATELLITE (Earth-to- space) SOM1.1		The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209)
			Little LEOs
400.05-400.15	400.05-400.15		
STANDARD FREQUENCY ANDTIME SIGNAL-SATELLITE (400.1MHz)	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1MHz) SOM1.5		ITU RR Article 26
	FIXED		
	MOBILE		
5.261 5.262	SOM 6		
400.15-401	400.15-401		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS SOM1.6	Meteorological applications	The mobilesatellite service use is limited to nongeostationarysatellite systems. (5.209)
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth) SOM1.6	Fixed and Mobile applications	Resolution 739 (Rev.WRC19) applies
MOBILE-SATELLITE (space-to- Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space-to- Earth) SOM2.1		
SPACE RESEARCH (space-to- Earth) 5.263	SPACE RESEARCH (space-to- Earth)		
Space operation (space-to-Earth)	FIXED		
	MOBILE		
	Space operation (space-to-Earth) SOM1.3		
5.262 5.264	SOM 6		
401-402	401-402		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS SOM1.6	Meteorological applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	SPACE OPERATION (space-to- Earth) SOM2.1 EARTH EXPLORATION- SATELLITE(Earth-to-space) METEOROLOGICAL- SATELLITE (Earth-to-space) SOM1.6 Fixed SOM2.1 Mobile except aeronautical mobile SOM2.1	Fixed and Mobile applications SRD: UltraLow Power Medical Data Service (MEDS)	
5.264A 5.264B	SOM 5, SOM 6		
402-403	402-403		
METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS SOM1.6 EARTH EXPLORATION- SATELLITE(Earth-to-space) METEOROLOGICAL- SATELLITE (Earth-to-space) SOM1.6 Fixed SOM2.1 Mobile except aeronautical mobile SOM2.1	Meteorological applications Fixed and mobile applications SRD: UltraLow Power Medical Data Service (MEDS)	
5.264A 5.264B	SOM 5, SOM 6		
403-406	403-406		
METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS SOM1.6 Fixed SOM2.1 Mobile except aeronautical mobile SOM2.1	Meteorological applications Fixed and mobile applications SRD: UltraLow Power Medical Data Service (MEDS)	Resolution 205 (Rev.WRC19) applies. (5.265)
5.265	SOM 5, SOM 6		
406-406.1	406-406.1		
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to- space) SOM1.1	Distress and Safety EPIRB /Emergency and Locator Transmitters (ELT)	COSPAS – SARSAT / Low power EPIRBs. ITU RR Article 31, Appendices 13 and 15) and Resolution 205 (Rev.WRC19) apply. (5.265) Any emission capable of causing harmful interference to the authorized uses of the band 406406.1 MHz is prohibited. (5.267) Low power EPIRBs for search Rescue

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.265 5.266 5.267			
406.1-410	406.1-410		
FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1 RADIO ASTRONOMY	Fixed and mobile applications	Resolution 205 (Rev.WRC19) applies. (5.265)
5.149 5.265	SOM 6, SOM 16		
410-420	410-420		
FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space)5.268	FIXED SOM1.1, SOM2.1, SOM3.1 MOBILE except aeronautical mobile SOM1.1, SOM2.1, SOM3.1 SPACE RESEARCH (space-to-space)	Fixed and mobile applications SRD: Measurement and Remotecontrol equipment	Land mobile(Trunked Radio)
	SOM 5, SOM 6		
420-430	420-430		
FIXED MOBILE except aeronautical mobile Radiolocation	FIXED SOM2.1, SOM3.1 MOBILE except aeronautical mobile SOM2.1, SOM3.1 Radiolocation SOM2.1	Fixed and mobile applications	Land mobile (Trunked Radio)
5.269 5.270 5.271	SOM 6		
430-432	430-432		
AMATEUR RADIOLOCATION	FIXED MOBILE except aeronautical mobile AMATEUR SOM1.1.2 RADIOLOCATION SOM2.1	Fixed and mobile applications	Amateur user license required
5.271 5.274 5.275 5.276 5.277	SOM 6		
432-438	432-435		
AMATEUR RADIOLOCATION Earth exploration-satellite(active) 5.279A	FIXED MOBILE except aeronautical mobile AMATEUR SOM1.1.2 RADIOLOCATION SOM2.1 Earth exploration-satellite(active)	Fixed and mobile applications SRD: Nonspecific SRD applications	ISM usage in 433.05434.79 MHz is subject to authorization. (5.138) The amateursatellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table. (5.282) Amateur user license required
	435-438 MHz	Fixed applications	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	FIXED AMATEUR SOM1.1.2 RADIOLOCATION SOM2.1 Earth exploration-satellite(active)	Cube satellites for scientific research	
5.138 5.271 5.276 5.277 5.280 5.281 5.282	SOM 5, SOM 6, SOM 12		
438-440	438-440		
AMATEUR RADIOLOCATION	AMATEUR SOM1.1.2 RADIOLOCATION SOM2.1	Mobile applications	Amateur user license required
5.271 5.274 5.275 5.276 5.277 5.283	SOM 6		
440-450	440-450		
FIXED MOBILE except aeronautical mobile Radiolocation	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1, SOM1.1.1 Radiolocation SOM2.1	Fixed and mobile applications	Land mobile low power private radio (PMR446)
5.269 5.270 5.271 5.284 5.285 5.286	SOM 6		
450-455	450-455		
FIXED MOBILE 5.286AA	FIXED SOM1.1, SOM3.1 MOBILE , SOM1.1, SOM3.1	Fixed and mobile applications Fixed Wireless Access Radio Alarms private land mobile	This band is identified for IMT under Resolution 224 (Rev.WRC-19). (5.286AA) The mobilesatellite service use in 454456 MHz is limited to nongeostationarysatellite systems. (5.209) The use of the mobilesatellite service is subject to coordination under No. 9.11A. (5.286A)
5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E	SOM 6		
455-456	455-456		
FIXED MOBILE 5.286AA	FIXED SOM1.1, SOM3.1 MOBILE SOM1.1, SOM3.1	Fixed and mobile applications Fixed Wireless Access Wide area paging	This band is identified for IMT under Resolution 224 (Rev.WRC-19). (5.286AA) The mobilesatellite service use in 454456 MHz is limited to nongeostationarysatellite systems. (5.209) The use of the mobilesatellite service is subject to coordination under No. 9.11A. (5.286A)
5.209 5.271 5.286A 5.286B 5.286C 5.286E	SOM 6		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
456-459	456-459		
FIXED MOBILE 5.286AA	FIXED SOM1.1, SOM3.1 MOBILE SOM1.1, SOM3.1	Fixed and mobile applications SRD: Wireless control devices Fixed Wireless Access	This band is identified for IMT under Resolution 224 (Rev.WRC-19). (5.286AA) Use of the frequency band 457.5125457.5875 MHz by the maritime mobile service is limited to onboard communication stations. (5.287)
5.271 5.287 5.288	SOM 5, SOM 6		
459-460	459-460		
FIXED MOBILE 5.286AA	FIXED SOM1.1, SOM3.1 MOBILE SOM1.1, SOM3.1	Fixed applications SRD: Wireless control devices Fixed Wireless Access	This band is identified for IMT under Resolution 224 (Rev.WRC-19) (5.286AA) The mobilesatellite service use in 459460 MHz is limited to nongeostationarysatellite systems. (5.209) The use of the mobilesatellite service is subject to coordination under No. 9.11A. (5.286A)
5.209 5.271 5.286A 5.286B 5.286C 5.286E	SOM 5, SOM 6		
460-470	460-470		
FIXED MOBILE 5.286AA Meteorological-satellite (space-to-Earth)	FIXED SOM1.1, SOM3.1 MOBILE SOM1.1, SOM3.1 Meteorological-satellite (space-to-Earth) SOM1.6	Fixed and mobile applications	This band is identified for IMT under Resolution 224 (Rev.WRC-19). (5.286AA) Use of the frequency band 467.5125467.5875 MHz by the maritime mobile service is limited to onboard communication stations. (5.287) Earth explorationsatellite service applications, other than the meteorologicalsatellite service, may also be used. (5.289)
5.287 5.288 5.289 5.290	SOM 6		
470-694	470-606		
BROADCASTING	BROADCASTING SOM1.1 606-614 BROADCASTING SOM1.1 RADIO ASTRONOMY 614-694 BROADCASTING SOM1.1	SRD: Wireless Audio Applications Radio Microphones Analogue & Digital TV Broadcasting	ITU GE06 Plan UHF digital terrestrial Television broadcasting (bands IV & V) Channels 3648

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.149 5.291A 5.294 5.296 5.300 5.304 5.306 5.312 ADD 5.15A ADD 5.15B ADD 5.15C	SOM 5, SOM 16		
694-790	694-790		
MOBILE except aeronautical mobile 5.312A 5.317A ADD 5.14A BROADCASTING	MOBILE except aeronautical mobile , SOM1.1	Mobile applications	This band is identified for use to implement IMT, Resolutions 224 (Rev.WRC19),760 (Rev.WRC19) and 749 (Rev.WRC19) are applied. (5.317A) Subject to the provisions of Resolutions 760 (Rev.WRC19) & 224 (Rev.WRC19). (5.312A)
5.300 5.312	SOM 10		
790-862	790-862		
FIXED MOBILE except aeronautical mobile 5.316B 5.317A ADD 5.14A BROADCASTING	FIXED SOM1.1 MOBILE except aeronautical mobile , SOM1.1 -	Fixed and Mobile applications Fixed Wireless Access Mobile Band identified for IMT services Broadcasting	This band is identified for use to implement IMT, Resolutions 224 (Rev.WRC-19),760 (Rev.WRC-19) and 749 (Rev.WRC-19) are applied. (5.317A)
5.312 5.319			
862-890	862-890		
FIXED MOBILE except aeronautical mobile 5.317A ADD 5.14A BROADCASTING 5.322	FIXED SOM1.1, SOM3.1 MOBILE except aeronautical mobile SOM1.1, SOM3.1	Mobile Band identified for IMT services Fixed Wireless Access Fixed and Mobile applications SRD: Measurement and Remotecontrol equipment Alarms applications Radio frequency identification Wireless Audio applications	This band is identified for use to implement IMT, Resolutions 224 (Rev.WRC-19),760 (Rev.WRC-19) and 749 (Rev.WRC-19) are applied. (5.317A)
5.319 5.323	SOM 5, SOM 10		
890-942	890-942		
FIXED	FIXED SOM1.1	Fixed Wireless Access networks	This band is identified for use to implement IMT, Resolutions 224 (Rev.WRC-19),760 (Rev.WRC-19) and 749 (Rev.WRC-19) are applied. (5.317A)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile 5.317A ADD 5.14A BROADCASTING 5.322 Radiolocation	MOBILE except aeronautical mobile SOM1.1 BROADCASTING SOM1.1 Radiolocation SOM1.6	Public cellular mobile networks	
5.323	SOM 10		
942-960	942-960		
FIXED MOBILE except aeronautical mobile 5.317A ADD 5.14A BROADCASTING 5.322	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 BROADCASTING SOM 1.1	Fixed Wireless Access networks Public cellular mobile networks	This band is identified for use to implement IMT, Resolutions 224 (Rev.WRC19),760 (Rev.WRC19) and 749 (Rev.WRC19) are applied. (5.317A)
5.323	SOM 10		
960-1164	960-1164		
AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL MOBILE (R) , SOM4.1 AERONAUTICAL RADIONAVIGATION , SOM4.1	Aeronautical radio navigation systems: DME/SSR in 9601215 MHz ACAS (airair interrogation/airair reply) on 1030 /1090 MHz respectively Aeronautical Mobile satellite (R) services (ES) Aeronautical radionavigation, Distance measuring equipment Aeronautical Mobile	The band is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated groundbased facilities. (5.328) For ADSB uplink emissions from aircraft in 1087.71092.3 MHz in accordance with Resolution 425 (Rev.WRC19). (5.328AA) Resolution 417 (Rev.WRC15) applies. (5.327A) ICAO Annex 10
5.328AA	SOM 9, SOM 14		
1164-1215	1164-1215		
ERONAUTICAL RADIONAVIGATION 5.328 5.328A RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B	ERONAUTICAL RADIONAVIGATION , SOM4.1 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) , SOM4.1	Aeronautical radio navigation systems: DME/SSR in 9601215 MHz GNSS systems (GPS L5, Galileo E5, GLONASS G3)	The band is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated groundbased facilities. (5.328) ICAO Annex 10

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.328A	SOM 9, SOM 14		
1215-1240	1215-1240		
EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3	Fixed applications	Resolutions 608 (Rev.WRC19) and 610 (WRC03) shall apply. (5.328B)
RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active)	RADIOLOCATION SOM2.1 RADIONAVIGATION-SATELLITE(space-to-Earth) (space-to-space) ,SOM4.1 SPACE RESEARCH (active) FIXED MOBILE RADIONAVIGATION	GNSS systems (GPS L2, GLONASS G2)	ICAO Annex 10 For Radar and Navigation systems
5.330 5.331 5.332			
1240-1300	1240-1300		
EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) ,SOM4.1 SPACE RESEARCH (active) FIXED MOBILE RADIONAVIGATION Amateur SOM1.1.2	Fixed applications GNSS systems (GLONASS G2, Galileo E6)	Resolutions 608 (Rev.WRC19) and 610 (WRC03) shall apply ICAO Annex 10 For Radar and Navigation systems
5.282 5.330 5.331 5.332 5.335 5.335A ADD 5.A91B			
1300-1350	1300-1350		
RADIOLOCATION AERONAUTICAL- RADIONAVIGATION 5.337 RADIONAVIGATION- SATELLITE (Earth-to-space)	RADIOLOCATION SOM2.1 AERONAUTICAL- RADIONAVIGATION SOM4.1 RADIONAVIGATION-SATELLITE (Earth-to-space) SOM4.1		Aeronautical radionavigation service use is restricted to groundbased radars and to associated airborne transponders. (5.337) ICAO Annex 10 For Radar and Navigation systems
5.149 5.337A	SOM 16		
1350-1400	1350-1400		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED	FIXED SOM1.1	Fixed links	In this frequency band Resolution 750 (Rev.WRC19) applies. (5.338A)
MOBILE RADIOLOCATION	MOBILE SOM1.1 RADIOLOCATION SOM2.1.1		ICAO Annex 10
5.149 5.338 5.338A 5.339	SOM 7, SOM 16		
1400-1427	1400-1427		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band (5.340)
5.340 5.341	SOM 15		
1427-1429	1427-1429		
SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 5.341A 5.341B 5.341C	SPACE OPERATION (Earth-to-space) SOM2.1 FIXED SOM2.1 MOBILE except aeronautical mobile , SOM2.1	Fixed links	This band is identified for use to implement IMT, Resolution 223 (Rev.WRC15) applies. (5.341A)
5.338A 5.341	SOM 7		
1429-1452	1429-1452		
FIXED MOBILE except aeronautical mobile 5.341A	FIXED SOM2.1 MOBILE except aeronautical mobile , SOM2.1	Fixed links	This band is identified for use to implement IMT, Resolution 223 (Rev.WRC15) applied. (5.341A)
5.338A 5.341 5.342	SOM 7		
1452-1492	1452-1492		
FIXED MOBILE except aeronautical mobile 5.346 BROADCASTING BROADCASTING-SATELLITE 5.208B	FIXED SOM1.1 MOBILE except aeronautical mobile , SOM1.1 BROADCASTING SOM1.1 BROADCASTING-SATELLITE , SOM1.1	Fixed links Satellite and terrestrial digital audio broadcasting (DAB) (14521492 MHz) Satellite and terrestrial digital audio broadcasting (DAB) (14521492 MHz)	Resolution 739 (Rev.WRC19) applies. (5.208B) This band is identified for use to implement IMT, Resolution 223 (Rev.WRC15) applies. (5.346)
5.341 5.342 5.345	SOM 7		
1492-1518	1492-1518		
FIXED MOBILE except aeronautical mobile 5.341A	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links	This band is identified for use to implement IMT, Resolution 223 (Rev.WRC15) applies. (5.341A)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.341 5.342	SOM 7		
1518-1525	1518-1525		
FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to- Earth) 5.348 5.348A 5.348B 5.351A	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 MOBILE-SATELLITE (space-to-Earth) , SOM1.1	Fixed links Mobile satellite systems	The use of this band by the mobilesatellite service is subject to coordination under No. 9.11A. (5.348)
5.341 5.342	SOM 7, SOM 12		
1525-1530	1525-1530		
SPACE OPERATION (space-to- Earth) FIXED MOBILE-SATELLITE (space-to- Earth) 5.208B 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.349	SPACE OPERATION (space-to-Earth) SOM1.3 FIXED SOM1.1 MOBILE-SATELLITE (space-to-Earth) , SOM1.1 Earth exploration-satellite SOM1.3 Mobile except aeronautical mobile , SOM1.1	Fixed links Mobile satellite systems	Priority shall be given to accommodating the spectrum requirements of the aeronautical mobilesatellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. (5.357A) Resolution 739 (Rev.WRC19) applies. (5.208B)
5.341 5.342 5.350 5.351 5.352A 5.354	SOM 7, SOM12		
1530-1535	1530-1535		
SPACE OPERATION (space-to- Earth) MOBILE-SATELLITE (space-to- Earth) 5.208B 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile	SPACE OPERATION (space-to-Earth) SOM1.3 MOBILE-SATELLITE (space-to-Earth) , SOM1.1 Earth exploration-satellite SOM1.3 Fixed Mobile except aeronautical mobile SOM1.1	GMDSS (SATCOM) in 1 530–1 544 MHz Mobile satellite systems Fixed applications	ITU RR Appendix 15 GMDSS distress, urgency and safety communications have priority in this band. (5.353A) Resolution 739 (Rev.WRC19) applies. (5.208B)
5.341 5.342 5.351 5.354	SOM 12		
1535-1559	1535-1540		
MOBILE-SATELLITE (space-to- Earth) 5.208B 5.351A	MOBILE-SATELLITE (space-to-Earth) SOM1.1	GMDSS (SATCOM) in 1 530–1 544 MHz Mobile satellite systems	ITU RR Appendix 15 GMDSS distress, urgency and safety communications have priority in this band. (5.353A) ITU RR Appendix 15

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	1540-1559 MHz		
	MOBILE-SATELLITE (space-to-Earth) SOM1.1 Fixed	GMDSS (SATCOM) in 1 530–1 544 MHz / (D&SOPS) in 1544–1545 MHz Mobile satellite systems Fixed applications	The band 15301544 MHz is used for distress and safety purposes in the spacetoEarth direction in the maritime mobilesattellite service. Use of the band 15441545 MHz (spacetoEarth) is limited to distress and safety operations. (5.356)
5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	SOM 12		
1559-1610	1559-1610		
AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A	AERONAUTICAL RADIONAVIGATION SOM4.1 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) , SOM4.1	GNSS systems (GPS L1, Galileo E1E2, GLONASS G1, BeiDou B11)	Resolution 739 (Rev.WRC19) applies. (5.208B) ICAO Annex 10 For ADSB surveillance and the GBAS landing system (GLS)
5.341	SOM 12		
1610-1610.6	1610-1610.6		
MOBILE-SATELLITE (Earth-to- space) 5.351A AERONAUTICAL RADIONAVIGATION	MOBILE-SATELLITE (Earth-to-space) , SOM1.1 AERONAUTICAL RADIONAVIGATION SOM1.1 Fixed		This Band is also allocated to the fixed service on a secondary basis. (5.355) The use of the band 1 6101 626.5 MHz by the mobilesattellite service (Earthospace) and by the radiodeterminationsattellite service (Earthospace) is subject to coordination under No. 9.11A. (5.364) ICAO Annex 10 For Standardized aeronautical mobilesattellite (R) systems in compliance with the relevant ICAO SARPs
5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	SOM 14		
1610.6-1613.8	1610.6-1613.8		
MOBILE-SATELLITE (Earth-to- space) 5.351A RADIO ASTRONOMY	MOBILE-SATELLITE (Earth-to-space) SOM2.1 RADIO ASTRONOMY		The use of the band 1 6101 626.5 MHz by the mobilesattellite service (Earthospace) and by the radiodeterminationsattellite service (Earthospace) is subject to coordination under No. 9.11A. (5.364) ICAO Annex 10

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM2.1 Fixed		For Standardized aeronautical mobilesatellite (R) systems in compliance with the relevant ICAO SARPs
5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	SOM 14, SOM 16		
1613.8-1 621.35	1613.8-1 621.35		
MOBILE-SATELLITE (Earth-to- space) 5.351A AERONAUTICAL- RADIONAVIGATION Mobile-satellite (space-to-Earth) 5.208B	MOBILE-SATELLITE (Earth-to-space) , SOM1.1 AERONAUTICAL- RADIONAVIGATION SOM4.1 Mobile-satellite (space-to-Earth) SOM1.1 Fixed	Mobile satellite systems	The use of the band 1 6101 626.5 MHz by the mobilesatellite service (Earthtospace) and by the radiodeterminationsatellite service (Earthtospace) is subject to coordination under No. 9.11A. (5.364) Resolution 739 (Rev.WRC19) applies (5.208B) ICAO Annex 10 For Standardized aeronautical mobilesatellite (R) systems in compliance with the relevant ICAO SARPs.
5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372 ADD 5.111Z	SOM 12, SOM 14		
1 621.35-1 626.5	1 621.35-1 626.5		
MARITIME MOBILE- SATELLITE (space-to-Earth) 5.373 5.373A MOBILE-SATELLITE (Earth-to- space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to-Earth) except maritime mobile satellite (space-to-Earth)	MARITIME MOBILE- SATELLITE (space-to- Earth) MOBILE-SATELLITE (Earth-to-space) SOM1.1 AERONAUTICAL RADIONAVIGATION SOM4.1 Mobile-satellite (space-to-Earth) except maritime mobile satellite (space-to-Earth) SOM1.1 Fixed	Used for distress and safety purposes in the Earthtospace and spacetoEarth directions in the maritime mobilesatellite service Mobile satellite systems	ITU RR Appendix 15 The use of the band 1 6101 626.5 MHz by the mobilesatellite service (Earthtospace) and by the radiodeterminationsatellite service (Earthtospace) is subject to coordination under No. 9.11A. (5.364) Resolution 739 (Rev.WRC19) applies. (5.208B) ICAO Annex 10 For Standardized aeronautical mobilesatellite (R) systems in compliance with the relevant ICAO SARPs.
5.208B 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	SOM 12, SOM 14		
1626.5-1660	1626.5-1645.5 MHz		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE-SATELLITE (Earth-to-space) 5.351A	MOBILE-SATELLITE (Earth-to-space) SOM1.1 Fixed	GMDSS (SATCOM) in 1626.5 – 1645.5 MHz Mobile satellite systems Fixed applications	ITU RR Appendix 15. The band 1 626.51 645.5 MHz is used for distress and safety purposes in the Earthspace direction in the maritime mobilesatellite service. GMDSS distress, urgency and safety communications have priority in this band. (5.353A) Use of the band 1 645.51 646.5 MHz (Earthspace) is limited to distress and safety operations. (5.375)
	1645.5-1646.5 MHz	GMDSS (D&SOPS) in 1645.51646.5 MHz	
	MOBILE-SATELLITE (Earth-to-space) SOM1.1	Mobile satellite systems	
	1646.5-1660 MHz	Mobile satellite systems	
	MOBILE-SATELLITE (Earth-to-space) SOM1.1 Fixed	Fixed applications	
5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376	SOM 12		
1660-1660.5	1660-1660.5		
MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY	MOBILE-SATELLITE (Earth-to-space) , SOM1.1 RADIO ASTRONOMY		
5.149 5.341 5.351 5.354 5.362A 5.376A	SOM 16		
1660.5-1668	1660.5-1668		
RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed SOM1.1 Mobile except aeronautical mobile SOM1.1	Fixed applications	
5.149 5.341 5.379 5.379A	SOM 15, SOM 16		
1668-1668.4	1668-1668.4		
MOBILE-SATELLITE (Earth-to- space) 5.351A 5.379B 5.379C RADIOASTRONOMY SPACE RESEARCH (passive) Fixed	MOBILE-SATELLITE (Earth-to-space) , SOM1.1 RADIOASTRONOMY SPACE RESEARCH (passive) Fixed SOM1.1		The aggregate power flux density values produced by mobile earth stations operating in this band is limited. (5.379C)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Mobile except aeronautical mobile	Mobile except aeronautical mobile SOM1.1		
5.149 5.341 5.379 5.379A	SOM 15, SOM 16		
1668.4-1670	1668.4-1670		
METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to- space) 5.351A 5.379B 5.379C RADIO ASTRONOMY	METEOROLOGICAL AIDS SOM1.6 FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 MOBILE-SATELLITE (Earth-to-space) , SOM1.1 RADIO ASTRONOMY		The aggregate power flux density values produced by mobile earth stations operating in this band is limited. (5.379C)
5.149 5.341 5.379D 5.379E	SOM 16		
1670-1675	1670-1675		
METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (Earth-to- space) 5.351A 5.379B	METEOROLOGICAL AIDS SOM1.6 FIXED SOM1.1 METEOROLOGICAL-SATELLITE(space-to- Earth) SOM1.6 MOBILE SOM1.1 MOBILE-SATELLITE (Earth-to-space) , SOM1.1		
5.341 5.379D 5.379E 5.380A			
1675-1690	1675-1690		
METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	METEOROLOGICAL AIDS SOM1.6 FIXED SOM1.1, SOM3.1 METEOROLOGICAL-SATELLITE (space-to- Earth) SOM1.6 MOBILE except aeronautical mobile SOM1.1, SOM3.1	Fixed applications	
5.341			
1690-1700	1690-1700		
METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS SOM1.6 METEOROLOGICAL- SATELLITE (space-to- Earth) SOM1.6 FIXED SOM1.1.1 MOBILE except aeronautical mobile SOM1.1		Earth explorationsatellite service applications, other than the meteorologicalsatellite service, may also be used. (5.289)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.289 5.341 5.382			
1700-1710	1700-1710		
FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED SOM1.1 METEOROLOGICAL-SATELLITE (space-to-Earth) SOM1.6 MOBILE except aeronautical mobile SOM1.1	Fixed applications	Earth explorationsatellite service applications, other than the meteorologicalsatellite service, may also be used. (5.289)
5.289 5.341			
1710-1930	1710-1930		
FIXED MOBILE5.384A 5.388A	FIXED SOM1.1 MOBILE SOM1.1	Terrestrial IMT (17101785/18051880 MHz) (19201980/21102170 MHz) Fixed applications Wireless Local loop WLL (18801900 MHz) SRD: Cordless telephone (DECT)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolutions 212 (Rev.WRC15) and 223 (Rev.WRC15). (5.384A) (5.388) The band 1 718.81 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (5.385)
5.149 5.341 5.385 5.386 5.387 5.388	SOM 5, SOM 10, SOM 16		
1930-1970	1930-1970		
FIXED MOBILE5.388A	FIXED SOM1.1 MOBILE SOM1.1	Terrestrial IMT (19201980/21102170 MHz)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev.WRC15). (5.388) This Band may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications (IMT), in accordance with Resolution 221 (Rev. WRC07). (3.388A)
5.388	SOM 10		
1970-1980	1970-1980		
FIXED MOBILE 5.388A	FIXED SOM1.1 MOBILE SOM1.1	Terrestrial IMT (19201980/21102170 MHz)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev.WRC15). (5.388) This Band may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications (IMT), in accordance with Resolution 221 (Rev.WRC07). (3.388A)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.388	SOM 10		
1980-2010	1980-2010		
FIXED MOBILE MOBILE-SATELLITE (Earth- to-space) 5.351A	FIXED SOM1.1 MOBILE SOM1.1 MOBILE-SATELLITE (Earth- to-space) SOM1.1	Fixed applications	This band is identified for use to implement IMT, in accordance with Resolutions 212 (Rev.WRC15) and 223 (Rev.WRC15). (5.388)
5.388 5.389A 5.389B 5.389F			
2010-2025	2010-2025		
FIXED MOBILE 5.388A	FIXED SOM1.1 MOBILE SOM1.1	Fixed applications	This Band may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications (IMT), in accordance with Resolution 221 (Rev. WRC07). (3.388A) This band is identified for use to implement IMT, in accordance with Resolutions 212 (Rev.WRC15) and 223 (Rev.WRC15). (5.388)
5.388			
2025-2110	2025-2110		
SPACE OPERATION (Earth to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space)	SPACE OPERATION (Earth to-space) (space-to-space) SOM2.1 EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) SOM1.3 FIXED MOBILE SOM2.1, SOM1.1.1 SPACE RESEARCH (Earth-to-space) (space-to-space)	Earth exploration satellite applications Fixed applications	
5.392	SOM 12		
2110-2120	2110-2120		
FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space)	FIXED SOM1.1 MOBILE SOM1.1 SPACE RESEARCH (deep space) (Earth- to-space)	Terrestrial IMT (1920/1980/2110/2170 MHz)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev. WRC15). (5.388)
5.388	SOM 10		
2120-2160	2120-2160		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED	FIXED SOM1.1	Terrestrial IMT (19201980/21102170 MHz)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev.WRC15). (5.388) This Band may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications (IMT), in accordance with Resolution 221 (Rev.WRC07). (3.388A)
MOBILE 5.388A	MOBILE SOM1.1		
5.388	SOM 10		
2160-2170	2160-2170		
FIXED	FIXED SOM1.1	Terrestrial IMT (19201980/21102170 MHz)	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev.WRC15) (5.388)
MOBILE 5.388A	MOBILE SOM1.1		
5.388	SOM 10		
2170-2200	2170-2200		
FIXED	FIXED SOM1.1	Fixed applications	This Band is identified to implement International Mobile Telecommunications (IMT) in accordance with Resolution 212 (Rev.WRC15). (5.388)
MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A	MOBILE SOM1.1 MOBILE-SATELLITE (space-to-Earth) SOM1.1		
5.388 5.389A 5.389F			
2200-2290	2200-2290		
SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to- Earth) (space-to-space)	SPACE OPERATION (space-to-Earth) (space-to-space) SOM2.1 EARTH EXPLORATION-SATELLITE(space-to-Earth) (space-to-space) SOM1.3 FIXED SOM1.1 MOBILE SOM2.1, SOM1.1.1 SPACE RESEARCH (space-to-Earth) (space-to-space)	Earth exploration satellite applications Fixed applications	
5.392	SOM 12		
2290-2300	2290-2300		
FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 SPACE RESEARCH (deep space) (space-to-Earth)	Fixed links	
	SOM 7		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
2300-2450	2300-2450		
FIXED MOBILE 5.384A Amateur Radiolocation	FIXED SOM1.1 MOBILE SOM1.1 Amateur SOM1.1.2 Radiolocation SOM2.1	Fixed links SRD: Wireless LANs (24002483.5 MHz) Wideband Data Transmission Systems Measurement and Remotecontrol equipment Radio determination applications Radio frequency identification	The band 23002400 MHz is identified for use to implement IMT, Resolution 223 (Rev.WRC15) applies. (5.384A) For ISM in 24002500 MHz. (5.150)
5.150 5.282 5.395	SOM 5, SOM 7		
2450-2483.5	2450-2483.5		
FIXED MOBILE Radiolocation	FIXED SOM1.1 MOBILE SOM1.1 Radiolocation SOM2.1.1	Fixed links SRD: Wireless LANs (24002483.5 MHz) Wideband Data Transmission Systems Measurement and Remotecontrol equipment Radio determination applications Radio frequency identification	For ISM in 24002500 MHz. (5.150)
5.150	SOM 5, SOM 7		
2483.5-2500	2483.5-2500		
FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-to-Earth) 5.398 Radiolocation 5.398A	FIXED SOM1.1 MOBILE SOM1.1 MOBILE-SATELLITE (space-to-Earth) , SOM1.1 RADIODETERMINATION- SATELLITE(space-to-Earth) , SOM1.1 Radiolocation , SOM2.1.1	Fixed links	For ISM in 24002500 MHz. (5.150)
5.150 5.399 5.401 5.402 ADD 5.111Z 5.368	SOM 7		
2500-2520	2500-2520		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED 5.410 MOBILE except aeronautical mobile 5.384A ADD 5.14C	FIXED , SOM1.1 MOBILE except aeronautical mobile , SOM1.1	Terrestrial IMT (2500 – 2690 MHz)	This band is identified for use to implement IMT, Resolutions 223 (Rev.WRC15) applied (5.384A) This band may be used for tropospheric scatter systems (5.410)
5.412	SOM 10		
2520-2655	2520-2655		
FIXED5.410 MOBILE except aeronautical mobile 5.384A ADD 5.14C BROADCASTING-SATELLITE 5.413 5.416	FIXED SOM1.1 MOBILE except aeronautical mobile , SOM1.1 BROADCASTING-SATELLITE , SOM1.1	Terrestrial IMT (2500 – 2690 MHz)	This band is identified for use to implement IMT, Resolutions 223 (Rev.WRC15) applied (5.384A) This band may be used for tropospheric scatter systems (5.410)
5.339 5.412 5.418B 5.418C	SOM 10		
2655-2670	2655-2670		
FIXED 5.410 MOBILE except aeronautical mobile 5.384A ADD 5.14C BROADCASTING-SATELLITE 5.208B 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	FIXED , SOM1.1 MOBILE except aeronautical mobile , SOM1.1 BROADCASTING-SATELLITE Earth exploration-satellite (passive) SOM1.3 Radio astronomy Space research (passive)	Terrestrial IMT (2500 – 2690 MHz)	This band is identified for use to implement IMT, Resolutions 223 (Rev.WRC15) applied. (5.384A) This band may be used for tropospheric scatter systems (5.410) Resolution 739 (Rev.WRC19) applies.
5.149 5.412, SOM1.1	SOM 10, SOM 16		
2670-2690	2670-2690		
FIXED 5.410 MOBILE except aeronautical mobile 5.384A ADD 5.14C Earth exploration-satellite (passive) Radio astronomy Space research (passive)	FIXED SOM1.1 MOBILE except aeronautical mobile , SOM1.1 Earth exploration-satellite (passive) SOM1.3 Radio astronomy Space research (passive)	Terrestrial IMT (2500 – 2690 MHz)	This band is identified for use to implement IMT, Resolutions 223 (Rev.WRC15) applied. (5.384A) This band may be used for tropospheric scatter systems (5.410)
5.149 5.412	SOM 10, SOM 16		
2690-2700	2690-2700		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY		All emissions are prohibited in this band except for Fixed and mobile services use for equipment in operation by 1 January 1985 (5.340) (5.422)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE RESEARCH (passive)	SPACE RESEARCH (passive) FIXED MOBILE except aeronautical mobile		
5.340 5.422	SOM 15		
2700-2900	2700-2900		
AERONAUTICAL - RADIONAVIGATION 5.337 Radiolocation	AERONAUTICAL -RADIONAVIGATION SOM4.1 Radiolocation SOM2.1.1	Aeronautical radionavigation radars: PSR (primary surveillance radar) Meteorological radar navigational systems	Aeronautical radionavigation service use is restricted to groundbased radars and to associated airborne transponders. (5.337) ICAO Annex 10
5.423 5.424	SOM 9		
2900-3100	2900-3100		
RADIOLOCATIONS.424A RADIONAVIGATION 5.426	RADIOLOCATION SOM2.1.1 RADIONAVIGATION SOM4.1, SOM1.7		ICAO Annex 10 For Aeronautical radionavigation /radiolocation: PSR (primary surveillance radar)
5.425 5.427	SOM 8		
3100-3300	3100-3300		
RADIOLOCATION Earth exploration-satellite (active) Space research (active)	RADIOLOCATION SOM2.1 Earth exploration-satellite (active) SOM1.3 Space research (active)		
5.149 5.428	SOM 16		
3300-3400	3300-3400		
RADIOLOCATION	RADIOLOCATION SOM2.1		
5.149 5.429 5.429A 5.429B 5.430	SOM 16		
3400-3600	3400-3600		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.430A Radiolocation	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE except aeronautical mobile , SOM1.1 Radiolocation SOM2.1	Fixed links fixed Wireless Access	This band is identified for IMT, provisions 9.17 and 9.18 apply. (5.430A)
5.431	SOM 7		
3600-3800	3600-3800		
FIXED	FIXED SOM1.1	Fixed links	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED-SATELLITE (space-to- Earth) MOBILE except aeronautical mobile ADD 5.A13A ADD 5.A13B ADD 5.A13C ADD 5.A13D	FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE except aeronautical mobile SOM1.1	Mobile applications Fixed satellite systems Fixed Wireless Access	
	SOM 7, SOM 12		
3800 - 4200	3800 - 4200		
FIXED FIXED-SATELLITE (space-to-Earth) Mobile	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 Mobile SOM1.1	Fixed links Mobile applications Fixed satellite systems Fixed Wireless Access	
	SOM 7, SOM 12		
4200-4400	4200-4400		
AERONAUTICAL MOBILE (R) 5.436 AERONAUTICAL- RADIONAVIGATION 5.438	AERONAUTICAL MOBILE (R) , SOM4.1 AERONAUTICAL- RADIONAVIGATION , SOM4.1		Aeronautical mobile (R) service use is exclusively reserved for Wireless Avionics IntraCommunication systems (WAIC), Resolution 424 (WRC15) applies. (5.436) Aeronautical radionavigation service use is exclusively reserved for "radio altimeters". (5.438)
5.437 5.439 5.440			
4400-4500	4400-4500		
FIXED MOBILE 5.440A	FIXED SOM2.1 MOBILE SOM2.1		
	SOM 7		
4500-4800	4500-4800		
FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A	FIXED SOM2.1 FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE , SOM2.1	Fixed links SRD: Tank Level Probing Radar (TLPR)	The use of this band by Fixed Satellite service under Provisions of Appendix 30B (5.441)
	SOM 5, SOM 7		
4800-4990	4800-4990		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED MOBILE 5.440A 5.441A 5.441B 5.442 Radio astronomy	FIXED SOM2.1, SOM3.1.1 MOBILE ,SOM2.1, SOM3.1.1 Radio astronomy	Fixed links SRD: Tank Level Probing Radar (TLPR)	In the frequency bands 4 8254 835 MHz and 4 9504 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile. (5.442)
5.149 5.339 5.443	SOM 5, SOM 7, SOM 16		
4990-5000	4990-5000		
FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive)	FIXED SOM2.1 MOBILE except aeronautical mobile SOM2.1 RADIO ASTRONOMY Space research (passive)	SRD: Tank Level Probing Radar (TLPR)	Fixed links Channel plan ITUR F.1099
5.149	SOM 5, SOM 7, SOM 16		
5000-5010	5000-5010		
AERONAUTICAL MOBILE- SATELLITE (R) 5.443AA AERONAUTICAL- RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)	AERONAUTICAL MOBILE-SATELLITE (R) , SOM4.1 AERONAUTICAL RADIONAVIGATION SOM4.1 RADIONAVIGATION-SATELLITE (Earth-to-space) SOM1.1	SRD: Tank Level Probing Radar (TLPR)	The use of this band by the aeronautical mobile satellite (R) service is limited to internationally standardized aeronautical systems. (5.443AA) ICAO Annex 10 Radionavigation satellite downlink & intersatellite links
	SOM 5		
5010-5030	5010-5030		
AERONAUTICAL MOBILE- SATELLITE (R) 5.443AA AERONAUTICAL-RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth)(space-to-space)	AERONAUTICAL MOBILE-SATELLITE (R) , SOM4.1 AERONAUTICAL- RADIONAVIGATION SOM4.1 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) SOM1.1	SRD: Tank Level Probing Radar (TLPR)	The use of this band by the aeronautical mobile satellite (R) service is limited to internationally standardized aeronautical systems. (5.443AA) ICAO Annex 10 Radionavigation satellite downlink & intersatellite links
5.328B 5.443B	SOM 5		
5030-5091	5030-5091		
AERONAUTICAL MOBILE (R) 5.443C	AERONAUTICAL MOBILE (R) SOM4.1	SRD:	Aeronautical mobile (R) service use is limited to internationally standardized aeronautical systems. (5.443C)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
AERONAUTICAL MOBILE- SATELLITE (R) 5.443D	AERONAUTICAL MOBILE-SATELLITE (R) , SOM4.1	Tank Level Probing Radar (TLPR)	This band is used for the operation of the international standard system Microwave Landing System (MLS) for precision approach and landing. No. 5.444A and Resolution 114 (Rev.WRC15) apply. (5.444)
AERONAUTICAL- RADIONAVIGATION	AERONAUTICAL- RADIONAVIGATION SOM4.1		ICAO Annex 10
5.444	SOM 5		
5091-5150	5091-5150		
FIXED-SATELLITE (Earth-to- space) 5.444A	FIXED-SATELLITE (Earth-to-space) SOM1.1	SRD:	Aeronautical mobilesatellite (R) service use is limited to internationally standardized aeronautical systems. (5.443AA)
AERONAUTICAL MOBILE 5.444B	AERONAUTICAL MOBILE SOM4.1, SOM2.1.1	Tank Level Probing Radar (TLPR)	This band is used for the operation of the international standard system Microwave Landing System (MLS) for precision approach and landing. No. 5.444A and Resolution 114 (Rev.WRC15) apply. (5.444)
AERONAUTICAL MOBILE- SATELLITE (R) 5.443AA	AERONAUTICAL MOBILE-SATELLITE (R) , SOM4.1		Fixedsatellite service use is limited to feeder links of nongeostationary satellite systems in the mobilesatellite service. (5.444A)
AERONAUTICAL- RADIONAVIGATION	AERONAUTICAL- RADIONAVIGATION SOM4.1		The use of this band by the aeronautical mobile service is limited to: International standard systems in accordance with Resolution 748 (Rev.WRC19) Aeronautical telemetry transmissions from aircraft stations in accordance with Resolution 418 (Rev.WRC19). (5.444B) ICAO Annex 10
5.444	SOM 5		
5150-5250	5150-5250		
FIXED-SATELLITE (Earth-to-space) 5.447A	FIXED-SATELLITE (Earth-to-space) , SOM1.1	SRD:	The frequency band 51505216 MHz is also allocated to the radiodeterminationsatellite service (spacetoEarth) on a secondary basis (5.446)
MOBILE except aeronautical mobile 5.446A 5.446B	MOBILE except aeronautical mobile , SOM1.1	Wireless LANs (51505350 MHz)	Resolution 229 (Rev. WRC19) applies (5.446A)
AERONAUTICAL- RADIONAVIGATION	AERONAUTICAL- RADIONAVIGATION SOM4.1	Tank Level Probing Radar (TLPR)	The allocation to the fixedsatellite service (Earthtospace) is limited to feeder links of nongeostationarysatellite systems in the mobilesatellite service (5.447A)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			The band 51505216 MHz is allocated to the fixedsatellite service (spacetoEarth) on a primary basis limited to feeder links of nongeostationarysatellite systems in the mobile satellite service (5.447B) Aeronautical mobile service use is limited to aeronautical telemetry transmissions from aircraft stations in accordance with Resolution 418 (Rev.WRC19). (5.446C)
			ICAO Annex 10
5.446 5.446C 5.446D 5.447 5.447B 5.447C	SOM 5		
5250-5255	5250-5255		
EARTH EXPLORATION- SATELLITE (active) MOBILE except aeronautical mobile 5.446A 5.447F RADIOLOCATION SPACE RESEARCH 5.447D	EARTH EXPLORATION-SATELLITE (active) SOM1.3 MOBILE except aeronautical mobile SOM1.1, SOM2.1.1 RADIOLOCATION SOM2.1.1D SPACE RESEARCH	SRD: Wireless LANs (51505350 MHz) Tank Level Probing Radar (TLPR)	Resolution 229 (Rev. WRC19) applies. (5.446A)
5.447E 5.448 5.448A	SOM 5		
5255-5350	5255-5350		
EARTH EXPLORATION- SATELLITE (active) MOBILE except aeronautical mobile 5.446A 5.447F RADIOLOCATION SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3 MOBILE except aeronautical mobile , SOM1.1 RADIOLOCATION SOM2.1 SPACE RESEARCH (active)	SRD: Wireless LANs (51505350 MHz) Tank Level Probing Radar (TLPR)	Resolution 229 (Rev. WRC19) applies. (5.446A)
5.447E 5.448 5.448A	SOM 5		
5350-5460	5350-5460		
EARTH EXPLORATION- SATELLITE (active) 5.448B RADIOLOCATION 5.448D AERONAUTICAL- RADIONAVIGATION 5.449 SPACE RESEARCH (active) 5.448C	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION , SOM2.1 AERONAUTICAL- RADIONAVIGATION , SOM2.1 SPACE RESEARCH (active)	SRD: Tank Level Probing Radar (TLPR)	Aeronautical radionavigation service use is limited to airborne radars and associated airborne beacons (airborne weather and ground mapping radar). (5.449) ICAO Annex 10
	SOM 5		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5460-5470	5460-5470		
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION 5.448D RADIONAVIGATION 5.449 SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION , SOM2.1 RADIONAVIGATION , SOM2.1 SPACE RESEARCH (active)	SRD: Tank Level Probing Radar (TLPR)	Aeronautical radionavigation service use is limited to airborne radars and associated airborne beacons (airborne weather and ground mapping radar). (5.449) ICAO Annex 10
5.448B	SOM 5		
5470-5570	5470-5570		
EARTH EXPLORATION-SATELLITE (active) MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B MARITIME- RADIONAVIGATION SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE(active) SOM1.3 MOBILE except aeronautical mobile , SOM2.1 RADIOLOCATION , SOM2.1 MARITIME- RADIONAVIGATION SOM2.1 SPACE RESEARCH (active)	SRD: Tank Level Probing Radar (TLPR) Wireless Access Systems (WAS) Met. Radars (Maritime radar)	Resolution 229 (Rev. WRC19) applies. (5.446A)
5.448B 5.450 5.451	SOM 5, SOM 8		
5570-5650	5570-5650		
MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B MARITIME-RADIONAVIGATION	MOBILE except aeronautical mobile , SOM1.1 RADIOLOCATION , SOM2.1.1 MARITIME- RADIONAVIGATION SOM2.1	Meteorological Radar (5600 – 5650 MHz) SRD: Tank Level Probing Radar (TLPR)	Resolution 229 (Rev. WRC19) applies. (5.446A)
5.450 5.451 5.452	SOM 5, SOM 8		
5650-5725	5650-5725		
MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION Amateur Space research (deep space)	MOBILE except aeronautical mobile , SOM1.1 RADIOLOCATION SOM2.1 FIXED MOBILE Space research (deep space) Amateur SOM1.1	Fixed links SRD: Tank Level Probing Radar (TLPR)	Resolution 229 (Rev. WRC19) applies. (5.446A)
5.282 5.451 5.453 5.454 5.455	SOM 5, SOM 7		
5725-5830	5725-5830		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur	FIXED-SATELLITE (Earth-to-space) SOM1.1 RADIOLOCATION SOM2.1 FIXED MOBILE Amateur SOM1.1	Fixed links SRD: Tank Level Probing Radar (TLPR) Nonspecific short range devices	
5.150 5.451 5.453 5.455	SOM 5, SOM 7		
5830-5850	5830-5850		
FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth)	FIXED-SATELLITE (Earth-to-space) SOM1.1 RADIOLOCATION SOM2.1 FIXED MOBILE Amateur SOM1.1 Amateur-satellite (space-to-Earth) SOM1.1	Fixed links SRD: Tank Level Probing Radar (TLPR)	
5.150 5.451 5.453 5.455	SOM 5, SOM 7		
5850-5925	5850-5925		
FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) SOM1.1 MOBILE SOM1.1	SRD: Tank Level Probing Radar (TLPR) Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.384 Fixed satellite uplink 58506000 MHz is assigned to SOM2.1	
5.150	SOM 5, SOM 7		
5925-6700	5925-6700		
FIXED 5.457 FIXED-SATELLITE (Earth-to- space) 5.457A 5.457B MOBILE 5.457C ADD 5.6A12 ADD 5.6B12 ADD 5.6C12	FIXED , SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1 MOBILE , SOM1.1	Fixed links Fixed satellite systems SRD: Tank Level Probing Radar (TLPR)	The standard frequency and time signalsatellite service may be authorized to use the frequency 6427 MHz for Earthspace transmissions. (5.440)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
		Pointpoint infrastructure links Channel plan ITUR F.383 and ITUR F.384 Fixed satellite uplink 58506000 MHz is assigned to SOM2.1	
5.149 5.440 5.458	SOM 5, SOM 7, SOM 12, SOM 16		
6700-7075	6700-7075		
FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE ADD 5.6A12 ADD 5.6B12 ADD 5.6C12	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) , SOM1.1 MOBILE SOM1.1	Fixed links SRD: Tank Level Probing Radar (TLPR) Fixed satellite uplink 7.07.5 GHz is assigned to SOM2.1	The use of the band 6 7257 025 MHz by Fixed Satellite service under Provisions of Appendix 30B. (5.441) The spacetoEarth allocation to the fixedsatellite service is limited to feeder links for nongeostationary satellite systems of the mobilesatellite service (5.458B) Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.384
5.458 5.458A 5.458B	SOM 5, SOM 7, SOM 16		
7075-7145	7075-7145		
FIXED MOBILE ADD 5.6A12 ADD 5.6C12	FIXED SOM1.1, SOM2.1.2 MOBILE SOM1.1	Fixed links 7.07.5 GHz is assigned to SOM2.1	Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
5.458 5.459	SOM 7		
7145-7190	7145-7190		links Channel plan ITUR F. 383 and ITUR F.385
FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space)	FIXED SOM1.1 MOBILE SOM1.1 SPACE RESEARCH (deep space) (Earth- to-space)	Fixed links Pointpoint infrastructure 7.07.5 GHz is assigned to SOM2.1	
5.458 5.459	SOM 7		
7190-7235	7190-7235		
EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A 5.460B FIXED MOBILE	EARTH EXPLORATION-SATELLITE (Earth-to-space) , SOM1.3 FIXED SOM1.1 MOBILE SOM1.1	Fixed links 7.07.5 GHz is assigned to SOM2.1	Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE RESEARCH (Earth-to-space) 5.460	SPACE RESEARCH (Earth-to-space)		
5.458 5.459	SOM 7		
7235-7250	7235-7250		
EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A FIXED MOBILE	EARTH EXPLORATION-SATELLITE (Earth-to-space) , SOM1.3 FIXED SOM1.1 MOBILE SOM1.1	Fixed links 7.07.5 GHz is assigned to SOM2.1	Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
5.458	SOM 7		
7250-7300	7250-7300		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE SOM1.1	Fixed links Fixed satellite uplink 7.07.5 GHz is assigned to SOM2.1	This band is also allocated to the "mobilesatellite service" on a primary basis (5.461) Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
5.461	SOM 7		
7300-7375	7300-7375		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE except aeronautical mobile SOM1.1	Fixed links Fixed satellite uplink 7.07.5 GHz is assigned to SOM2.1	This band is also allocated to the "mobilesatellite service" on a primary basis (5.461) Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
5.461	SOM 7		
7375-7450	7375-7450		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE- SATELLITE (space-to-Earth) 5.461AA 5.461AB	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE except aeronautical mobile SOM1.1 MARITIME MOBILE-SATELLITE (space-to-Earth) SOM1.7	Fixed links Fixed satellite uplink 7.07.5 GHz is assigned to SOM2.1	The use of this band by the maritime mobile satellite service is limited to geostationary satellite networks (5.461AA) Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
ADD 5.A7(C)3	SOM 7		
7450-7550	7450-7550		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED	FIXED SOM1.1	Fixed links	The use of this band by the maritime mobile satellite service is limited to geostationary satellite networks (5.461AA)
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth) SOM2.1	Fixed satellite uplink	The use of this band by the meteorological satellite service (space-to-Earth) is limited to geostationary satellite systems (5.461A)
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL-SATELLITE (space-to-Earth) SOM1.6	7.07.5 GHz is assigned to SOM2.1	Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.385
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1		
MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB	MARITIME MOBILE-SATELLITE (space-to-Earth) SOM1.7		
5.461A ADD 5.A7(C)3	SOM 7		
7550-7750	7550-7750		
FIXED	FIXED SOM1.1	Fixed links	The use of this band by the maritime mobile satellite service is limited to geostationary satellite networks (5.461AA)
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth) SOM2.1		Fixed links Channel plan ITUR F. 383 and ITUR F.385
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1		
MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB	MARITIME MOBILE-SATELLITE (space-to-Earth) SOM1.7		
ADD 5.A7(C)3	SOM 7		
7750-7900	7750-7900		
FIXED	FIXED SOM1.1	Fixed links	The use of this band by the meteorological satellite service (space-to-Earth) is limited to nongeostationary satellite systems (5.461B)
METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B	METEOROLOGICAL-SATELLITE(space-to-Earth) , SOM1.6	Mobile satellite service for nonGSO Metsat system	Pointpoint infrastructure links Channel plan ITUR F. 383 and ITUR F.386
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile SOM1.1		
	SOM 7		
7900-8025	7900-8025		
FIXED	FIXED SOM2.1	Fixed links	This band is also allocated to the "mobile satellite service" on a primary basis (5.461)
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space) SOM2.1		Fixed links Channel plan ITUR F. 383 and ITUR F.386
MOBILE	MOBILE SOM2.1		
5.461	SOM 7		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
8025-8175	8025-8175		
EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463	EARTH EXPLORATION-SATELLITE (space-to-Earth) , SOM1.3 FIXED SOM2.1 FIXED-SATELLITE (Earth-to-space) SOM2.1 MOBILE , SOM2.1	Fixed links Earth exploration satellite systems Fixed satellite	Fixed links Channel plan ITUR F. 383 and ITUR F.386
5.462A	SOM 7, SOM 12, SOM 15		
8175-8215	8175-8215		
EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463	EARTH EXPLORATION-SATELLITE(space-to-Earth) SOM1.3 FIXED SOM2.1 FIXED-SATELLITE (Earth-to-space) SOM2.1 METEOROLOGICAL-SATELLITE (Earth-to-space) SOM1.6 MOBILE , SOM2.1	Fixed links Earth exploration satellite systems	Fixed links Channel plan ITUR F. 383 and ITUR F.386
5.462A	SOM 7, SOM 12, SOM 15		
8215-8400	8215-8400		
EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463	EARTH EXPLORATION-SATELLITE (space-to-Earth) SOM1.3 FIXED SOM2.1 FIXED-SATELLITE (Earth-to-space) SOM2.1 MOBILE , SOM2.1	Fixed links Earth exploration satellite systems	Fixed links Channel plan ITUR F. 383 and ITUR F.386
5.462A	SOM 7, SOM 12, SOM 15		
8400-8500	8400-8500		
FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to- Earth) 5.465 5.466	FIXED SOM1.1, SOM3.1, SOM2.1.2 MOBILE except aeronautical mobile SOM1.1, SOM3.1 SPACE RESEARCH (space-to-Earth)	Fixed links	Fixed links Channel plan ITUR F. 383 and ITUR F.386
	SOM 7		
8500-8550	8500-8550		
RADIOLOCATION	FIXED	SRD:	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	MOBILE RADIOLOCATION SOM2.1	Tank Level Probing Radar (TLPR)	
5.468 5.469	SOM 5, SOM 7		
8550-8650	8550-8650		
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)	FIXED MOBILE EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 SPACE RESEARCH (active)	SRD: Tank Level Probing Radar (TLPR)	
5.468 5.469 5.469A	SOM 5, SOM 7		
8650-8750	8650-8750		
RADIOLOCATION	FIXED MOBILE RADIOLOCATION SOM2.1	SRD: Tank Level Probing Radar (TLPR)	
5.468 5.469	SOM 5, SOM 7		
8750-8850	8750-8850		
RADIOLOCATION AERONAUTICAL- RADIONAVIGATION 5.470	RADIOLOCATION SOM2.1 AERONAUTICAL- RADIONAVIGATION SOM2.1	SRD: Tank Level Probing Radar (TLPR) Navigational aids	The use of this band by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8800 MHz. (5.470) ICAO Annex 10
5.471	SOM 5, SOM 8		
8850-9000	8850-9000		
RADIOLOCATION MARITIME- RADIONAVIGATION 5.472	RADIOLOCATION SOM2.1 MARITIME- RADIONAVIGATION SOM2.1	SRD: Tank Level Probing Radar (TLPR) Radars	The maritime radionavigation service is limited to shorebased radars (5.472)
5.473	SOM 5, SOM 8		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
9000-9200	9000-9200		
RADIOLOCATION AERONAUTICAL- RADIONAVIGATION 5.337	RADIOLOCATION SOM2.1 AERONAUTICAL- RADIONAVIGATION , SOM4.1	Aeronautical radionavigation groundbased PSR (primary surveillance radar) systems: Precision approach radar (PAR) Airport surveillance detection equipment (ASDE) SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	Aeronautical radionavigation service use is restricted to groundbased radars and to associated airborne transponders. (5.337) ICAO Annex 10
5.471 5.473A	SOM 5, SOM 8, SOM 9		
9200-9300	9200-9300		
EARTH EXPLORATION- SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME- RADIONAVIGATION 5.472	EARTH EXPLORATION-SATELLITE (active) , SOM1.3 RADIOLOCATION SOM2.1 MARITIME- RADIONAVIGATION SOM2.1, SOM1.1.1	Search and rescue transponders (SART) SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	ITU RR Appendix 15 Search and rescue transponders (SART) may be used (Article 31). (5.474) The maritime radionavigation service use is limited to shorebased radars. (5.472)
5.473 5.474 5.474D	SOM 5, SOM 8		
9300-9500	9300-9500		
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION 5.475 SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 RADIONAVIGATION .475 SOM4.1, SOM1.1, SOM1.1.1 SPACE RESEARCH (active)	Search and rescue transponders (SART) Aeronautical radionavigation airborne weather radar (AWR) and groundbased radar (PSR) SRD: Radio determination Applications Tank Level Probing Radar (TLPR) Weather/meteorological radars	ITU RR Appendix 15 Search and rescue transponders (SART) may be used (Article 31). (5.474) The use of this band by the aeronautical radionavigation service is limited to airborne weather radars and groundbased radars (5.475) ICAO Annex 10
5.427 5.474 5.475A 5.475B 5.476A	SOM 5, SOM 8, SOM 9		
9500-9800	9500-9800		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 RADIONAVIGATION SOM4.1, SOM1.1, SOM1.1.1 SPACE RESEARCH (active)	SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	
5.476A	SOM 5		
9800-9900	9800-9900		
RADIOLOCATION Earth exploration-satellite (active) Fixed Space research (active)	FIXED SOM1.1 RADIOLOCATION SOM2.1 Earth exploration-satellite (active) SOM1.3 Space research (active)	SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	
5.477 5.478 5.478A 5.478B	SOM 5, SOM 7		
9900-10000	9900-10000		
EARTH EXPLORATION- SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION Fixed	FIXED SOM1.1 EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1	Fixed links SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	The band 997510025 MHz is also allocated to the meteorologicalsatellite service on a secondary basis for use by weather radars. (5.479)
5.474D 5.477 5.478 5.479	SOM 5, SOM 7		
10-10.4	10-10.4		
EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED MOBILE RADIOLOCATION Amateur	EARTH EXPLORATIONSATELLITE (active) , SOM1.3 FIXED SOM2.1 MOBILE SOM2.1 RADIOLOCATION SOM2.1 Amateur SOM1.1.2	Fixed links SRD: Tank Level Probing Radar (TLPR)	The band 9 97510 025 MHz is also allocated to the meteorologicalsatellite service on a secondary basis for use by weather radars. (5.479) Stations operating in the Earth explorationsatellite (active) service shall comply with Recommendation ITUR RS.20660. (5.474B)
5.474D 5.479	SOM 5, SOM 7		
10.4-10.45	10.4-10.45		
FIXED	FIXED SOM2.1	Fixed links	

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE RADIOLOCATION Amateur	MOBILE SOM2.1, SOM3.1.1 RADIOLOCATION SOM2.1 Amateur SOM1.1.2	SRD: Tank Level Probing Radar (TLPR)	
	SOM 5, SOM 7		
10.45-10.5	10.45-10.5		
RADIOLOCATION Amateur Amateur-satellite	RADIOLOCATION SOM2.1 Amateur SOM1.1.2 Amateur-satellite SOM1.1.2	Fixed links SRD: Tank Level Probing Radar (TLPR)	
5.481	SOM 5, SOM 7		
10.5-10.55	10.5-10.55		
FIXED MOBILE Radiolocation	FIXED SOM1.1 MOBILE SOM1.1 Radiolocation SOM2.1.1, SOM1.1.2	Fixed links SRD: Tank Level Probing Radar (TLPR)	
	SOM 5, SOM 7		
10.55-10.6	10.55-10.6		
FIXED MOBILE except aeronautical mobile Radiolocation	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 Radiolocation SOM2.1.1, SOM1.1.2	Fixed links SRD: Tank Level Probing Radar (TLPR)	
	SOM 5, SOM 7		
10.6-10.68	10.6-10.68		
EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautica lmobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation SOM1.1.2	Fixed links	In the band 10.610.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed -3 dBW. (5.482) For the sharing this band between the Earth explorationsatellite (passive) service and the fixed and mobile, except aeronautical mobile, services. Resolution 751 (WRC07) applies. (5.482A) Fixed Wireless Access (Channel plan ITUR F. 1568)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.149 5.482 5.482A	SOM 7, SOM 16		
10.68-10.7	10.68-10.7		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.340 5.483	SOM 7, SOM 15		
10.7-10.95	10.7-10.95		
FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	FIXED SOM1.1, SOM2.1.1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) , SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links	The use of this band by the fixedsatellite service (Earthospace) is limited to feeder links for the broadcastingsatellite service (5.484) The use of this band by geostationarysatellite systems shall be in accordance with the provisions of Appendix 30B and use it by a nongeostationarysatellite system is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.441) Pointpoint Links (Channel plan ITUR F.387) National allotment for fixed satellite downlinkAppendix 30B.
	SOM 7		
10.95-11.2	10.95-11.2		
FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to- space) 5.484 MOBILE except aeronautical mobile	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) , SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links Fixed satellite systems	The use of this band by the fixedsatellite service (Earthospace) is limited to feeder links for the broadcastingsatellite service (5.484) The use of this band by a nongeostationarysatellite system in the fixedsatellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.484A) Resolution 155 (WRC15) shall apply. (5.484B) For command and nonpayload communications of UAS (RPAS C2 link in ICAO). Pointpoint Links (Channel plan ITUR F.387)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			National allotment for fixed satellite downlink Appendix 30B. Uplinks are limited to feeder links for BSS (Gateway & user downlink)
	SOM 7, SOM 12		
11.2-11.45	11.2-11.45		
FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links Fixed satellite systems	The use of this band by geostationary satellite systems shall be in accordance with the provisions of Appendix 30B (5.441) The use of this band by the fixed satellite service (Earth to space) is limited to feeder links for the broadcasting satellite service. (5.484) Pointpoint Links (Channel plan ITUR F.387) National allotment for fixed satellite downlink Appendix 30B. Uplinks are limited to feeder links for BSS (Gateway & user downlink)
	SOM 7, SOM 12		
11.45-11.7	11.45-11.7		
FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484 MOBILE except aeronautical mobile	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) SOM1.1 MOBILE except aeronautical mobile SOM1.1, SOM2.1.2	Fixed links Fixed satellite systems	The use of this band by the fixed satellite service (Earth to space) is limited to feeder links for the broadcasting satellite service. (5.484) The use of this band by a nongeostationary satellite system in the fixed satellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationary satellite systems in the fixed satellite service. (5.484A) Resolution 155 (WRC15) shall apply. (5.484B) For command and nonpayload communications of UAS (RPAS C2 link in ICAO). Pointpoint Links (Channel plan ITUR F.387) National allotment for fixed satellite downlink Appendix 30B. Uplinks are limited to feeder links for BSS (Gateway & user downlink)
	SOM 7, SOM 12		
11.7-12.5	11.7-12.5		
FIXED	FIXED SOM1.1	Fixed links	Broadcasting satellite stations operating in accordance Plan in Appendix 30. (5.487)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492	MOBILE except aeronautical mobile SOM1.1 BROADCASTING SOM1.1 BROADCASTING-SATELLITE , SOM1.1	Broadcasting satellite systems	<p>This band is also allocated to the fixedsatellite service (spacetoEarth) on a primary basis, limited to nongeostationary systems and subject to application of the provisions of No. 9.12 (5.487A)</p> <p>Stations of the broadcastingsatellite service List in Appendix 30 may also be used for transmissions in the fixedsatellite service (spacetoEarth). (5.492)</p> <p>Pointpoint links (Channel plan ITUR F.746) K194, K195, K196 National allotment for BSS DownlinkAppendix 30 (Gateway downlink)</p>
5.487 5.487A	SOM 7, SOM 12		
12.5-12.75	12.5-12.75		
FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space)	FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) SOM1.1 MOBILE except aeronautical mobile	Fixed links Fixed satellite systems	<p>The use of this band by a nongeostationarysatellite system in the fixedsatellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.484A)</p> <p>Resolution 155 (WRC 15) shall apply. (5.484B)</p> <p>For command and nonpayload communications of UAS (RPAS C2 link in ICAO).</p>
5.494 5.495 5.496	SOM 7, SOM 12		
12.75-13.25	12.75-13.25		
FIXED FIXED-SATELLITE (Earth-to-space) 5.441 ADD 5.A115 MOBILE Space research (deep space) (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) 1.1 MOBILE SOM1.1 Space research (deep space) (space-to- Earth)	Fixed links	<p>The use of this band by geostationarysatellite systems shall be in accordance with the provisions of Appendix 30B and use it by a nongeostationarysatellite system is subject to application of the provisions of No. 9.12. (5.441)</p> <p>National allotment for FSS uplink</p>
	SOM 7		
13.25-13.4	13.25-13.4		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active) SOM1.3		<p>The use of this band GHz by the aeronautical radionavigation service is limited to Doppler navigation aids (5.497)</p>

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
AERONAUTICAL RADIONAVIGATION 5.497	AERONAUTICAL RADIONAVIGATION SOM4.1		The use of this band GHz by the aeronautical radionavigation service is limited to Doppler navigation aids (airborne Doppler radar and ground mapping radar). (5.497)
SPACE RESEARCH (active)	SPACE RESEARCH (active)		ICAO Annex 10
5.498A 5.499			
13.4-13.65	13.4-13.65		
EARTH EXPLORATION SATELLITE (active) FIXED-SATELLITE (space-to Earth) 5.499A 5.499B RADIOLOCATION SPACE RESEARCH 5.499C 5.499D Standard frequency and time signal-satellite (Earth-to-space)	EARTH EXPLORATION SATELLITE (active) SOM1.3 FIXED-SATELLITE (space-to Earth) , SOM1.1 RADIOLOCATION SOM2.1 SPACE RESEARCH FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space) SOM1.5	Fixed links SRD: Radio determination Applications	The allocation of this band to the space research service on a primary basis is limited to: satellite systems operating in the space research service (spacetospace) active spaceborne sensors, satellite systems operating in the space research service (spacetoEarth). (5.499c)
5.499E 5.500 5.501 5.501B	SOM 5, SOM 7		
13.65-13.75	13.65-13.75		
EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space)	EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 SPACE RESEARCH , SOM1.3 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space) SOM1.4	SRD: Radio determination Applications	The allocation of this band the space research service on a primary basis is limited to active spaceborne sensors. (5.501A)
5.499 5.500 5.501 5.501B	SOM 5, SOM 7		
13.75-14	13.75-14		
FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION	FIXED-SATELLITE (Earth-to-space) , SOM1.1 RADIOLOCATION SOM2.1	Fixed links Fixed satellite systems	The frequency band is also allocated to the fixed and mobile services on a primary basis. (5.500)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
Earth exploration-satellite Standard frequency and time signal-satellite (Earth-to-space) Space research	Earth exploration-satellite SOM1.3 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space) SOM1.4 Space research	SRD: Radio determination Applications Satellite uplinks (Gateway)	
5.499 5.500 5.501 5.502 5.503	SOM 5, SOM 7, SOM 12		
14-14.25	14-14.25		
FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A Space research	FIXED FIXED-SATELLITE (Earth-to-space) , SOM1.1 RADIONAVIGATION , SOM1.1 Mobile-satellite (Earth-to-space) SOM1.1 Space research	Fixed links Fixed satellite systems Satellite uplinks (User uplink)	Resolution 155 (WRC15) shall apply. (5.484B) For command and nonpayload communications of UAS (RPAS C2 link in ICAO).
5.504A 5.505	SOM 7, SOM 12		
14.25-14.3	14.25-14.3		
FIXED-SATELLITE (Earth-to- space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A Space research	FIXED FIXED-SATELLITE (Earth-to-space) SOM1.1 RADIONAVIGATION , SOM1.1 Mobile-satellite (Earth-to-space) SOM1.1 Space research SOM1.1	Fixed links Fixed satellite systems Satellite uplinks (User uplink)	Resolution 155 (WRC 15) shall apply. (5.484B) 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 (WRC03). (5.506A) For command and nonpayload communications of UAS (RPAS C2 link in ICAO).
5.504A 5.505 5.508	SOM 7, SOM 12		
14.3-14.4	14.3-14.4		
FIXED FIXED-SATELLITE (Earth-to- space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1	Fixed satellite systems	Resolution 155 (WRC15) shall apply. (5.484B) Pointpoint infrastructure links (Channel plan ITUR

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radionavigation-satellite	MOBILE except aeronautical mobile SOM1.1 Mobile-satellite (Earth-to-space) , SOM1.1 Radionavigation-satellite SOM1.1		Satellite uplinks (Gateway uplink) For command and nonpayload communications of UAS (RPAS C2 link in ICAO).
5.504A	SOM 12		
14.4-14.47	14.4-14.47		
FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Space research (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1 MOBILE except aeronautical mobile SOM1.1 Mobile-satellite (Earth-to-space) , SOM1.1 Space research (space-to-Earth)	Fixed links Fixed satellite systems Satellite uplinks (Gateway uplink) Mobile Satellite	Resolution 155 (WRC15) shall apply. (5.484B) For command and nonpayload communications of UAS (RPAS C2 link in ICAO). Pointpoint infrastructure links (cellular base station approach links) (channelisation plan ITUR F. 636)
5.504A	SOM 7, SOM 12		
14.47-14.5	14.47-14.5		
FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio astronomy	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1 MOBILE except aeronautical mobile SOM1.1 Mobile-satellite (Earth-to-space) , SOM1.1 Radio astronomy	Fixed links Satellite uplinks (Gateway uplink)	The use of this band by a nongeostationarysatellite system in the fixedsatellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.484A) Pointpoint infrastructure links (cellular base station approach links) (channelisation plan ITUR F. 636)
5.149 5.504	SOM 7, SOM 16		
14.5-14.75	14.5-14.75		
FIXED FIXED-SATELLITE (Earth-to-space) 5.509B 5.509C 5.509D 5.509E 5.509F 5.510	FIXED SOM1.1, SOM2.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1	Fixed links Satellite uplinks (Gateway uplink)	The fixedsatellite service (Earthtospace) not for feeder links for the broadcastingsatellite service is limited to geostationarysatellites (5.509B) The frequency band 14.514.8 GHz is also allocated to the space research service on a primary basis. (5.509G)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE Space research 5.509G	MOBILE SOM1.1, SOM2.1 Space research		With Resolution 163 (WRC15) and Resolution 164 (WRC15), the use of the frequency band 14.514.8 GHz by the fixedsatellite service (Earthospace) is limited to feeder links for the broadcastingsatellite service. (5.510) APPENDIX 30A (REV.WRC19) applies. Pointpoint infrastructure links (cellular base station approach links) (channelisation plan ITUR F. 636)
	SOM 7		
14.75-14.8	14.75-14.8		
FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research 5.509G	FIXED SOM2.1 FIXED-SATELLITE (Earth-to-space) SOM2.1 MOBILE SOM2.1 Space research	Fixed links Satellite uplinks (Gateway uplink)	With Resolution 163 (WRC15) and Resolution 164 (WRC15), the use of the frequency band 14.514.8 GHz by the fixedsatellite service (Earthospace) is limited to feeder links for the broadcastingsatellite service. (5.510) APPENDIX 30A (REV.WRC19) applies. The frequency band 14.514.8 GHz is also allocated to the space research service on a primary basis. (5.509G) Pointpoint infrastructure links (cellular base station approach links) (channelisation plan ITUR F. 636)
	SOM 7		
14.8-15.35	14.8-15.35		
FIXED MOBILE Space research ADD 5.A113	FIXED SOM2.1 MOBILE SOM2.1 Space research	Fixed links	This Band is also allocated to the space research (passive) and Earth explorationsatellite (passive) services on a secondary basis. (5.339) Pointpoint infrastructure links (cellular base station approach links) (channelisation plan ITUR F. 636)
5.339	SOM 7		
15.35-15.4	15.35-15.4		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile		This Band is also allocated to the fixed and mobile services on a secondary basis. (5.511)
5.340 5.511	SOM 7, SOM 15		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
15.4-15.41	15.4-15.41		
RADIOLOCATION 5.511E 5.511F	RADIOLOCATION , SOM4.1		Radiolocation stations shall not exceed the power fluxdensity level of –156 dB(W/m ²) in a 50 MHz bandwidth. (5.511F) For Aeronautical radionavigation groundbased PSR (primary surveillance radar) systems: Precision approach radar (PAR) Airport surveillance detection equipment (ASDE) ICAO Annex 10
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1		
15.41-15.43	15.41-15.43		
RADIOLOCATION 5.511E 5.511F	RADIOLOCATION		Radiolocation stations shall not exceed the power fluxdensity level of –156 dB(W/m ²) in a 50 MHz bandwidth. (5.511F) For Aeronautical radionavigation groundbased PSR (primary surveillance radar) systems: Precision approach radar (PAR) Airport surveillance detection equipment (ASDE)
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL SOM4.1		
Aeronautical mobile (OR) ADD 5.AA110	RADIONAVIGATION SOM4.1		
	Aeronautical mobile (OR)		
15.43-15.63	15.43-15.63		
FIXED-SATELLITE (Earth-to-space) 5.511A	FIXED-SATELLITE (Earth-to-space) , SOM1.1		The use of this band by the fixedsatellite service (Earthtospace) is limited to feeder links of nongeostationary systems in the mobilesatellite service. (5.511A) Radiolocation stations shall not exceed the power fluxdensity level of –156 dB(W/m ²) in a 50 MHz bandwidth. (5.511F)
RADIOLOCATION 5.511E 5.511F	RADIOLOCATION , SOM4.1		
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1		
Aeronautical mobile (OR) ADD 5.AA110	Aeronautical mobile (OR)		
5.511C			
15.63-15.7	15.63-15.7		
RADIOLOCATION 5.511E 5.511F	RADIOLOCATION , SOM4.1		Radiolocation stations shall not exceed the power fluxdensity level of –156 dB(W/m ²) in a 50 MHz bandwidth. (5.511F) For Aeronautical radionavigation groundbased PSR (primary surveillance radar) systems:
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION SOM4.1		
Aeronautical mobile (OR) ADD 5.AA110	Aeronautical mobile (OR)		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			Precision approach radar (PAR) Airport surveillance detection equipment (ASDE) ICAO Annex 10
15.7-16.6	15.7-16.6		
RADIOLOCATION	FIXED MOBILE RADIOLOCATION SOM2.1	Fixed links	This band is also allocated to the fixed and mobile services on a primary basis. (5.512) For Aeronautical radionavigation groundbased PSR (primary surveillance radar) systems: Precision approach radar (PAR) Airport surveillance detection equipment (ASDE) ICAO Annex 10
5.512 5.513	SOM 7		
16.6-17.1	16.6-17.1		
RADIOLOCATION Space research (deep space) (Earth-to-space)	FIXED MOBILE RADIOLOCATION SOM2.1 Space research (deep space) (Earth-to- space)		This band is also allocated to the fixed and mobile services on a primary basis. (5.512)
5.512 5.513	SOM 7		
17.1-17.2	17.1-17.2		
RADIOLOCATION	FIXED MOBILE RADIOLOCATION SOM2.1		This band is also allocated to the fixed and mobile services on a primary basis. (5.512)
5.512 5.513	SOM 7		
17.2-17.3	17.2-17.3		
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)	FIXED MOBILE EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 SPACE RESEARCH (active)		This band is also allocated to the fixed and mobile services on a primary basis. (5.512) Spaceborne active sensors shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (5.513A)
5.512 5.513 5.513A	SOM 7		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
17.3-17.7	17.3-17.7		
FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B Radiolocation	FIXED-SATELLITE (Earth-to-space) (space-to-Earth) , SOM1.1 Radiolocation SOM2.1.1 Fixed Mobile	Fixed satellite systems Broadcasting satellite systems feeder links	Resolution 143 (Rev.WRC19) applies. (5.516B) APPENDIX 30A (REV.WRC19): Provisions and associated Plans and List for feeder links for the broadcasting satellite service in the frequency bands 17.318.1 GHz (5.516) Feeder link plans for broadcasting satellite (Appendix 30A)
5.514	SOM 12		
17.7-18.1	17.7-18.1		
FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A ADD 5.A116 (Earth-to-space) 5.516 MOBILE	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) , (Earth-to-space) , SOM1.1 MOBILE SOM1.1	Fixed links Fixed satellite systems Broadcasting satellite systems feeder links	APPENDIX 30A (REV.WRC19): Provisions and associated Plans and List for feeder links for the broadcasting satellite service in the frequency bands 17.318.1 GHz. (5.516) Pointpoint infrastructure links (Channel plan ITUR F.595) Feeder link plans for broadcasting satellite (Appendix 30A)
	SOM 7, SOM 12		
18.1-18.4	18.1-18.4		
FIXED FIXED-SATELLITE (space-to- Earth) 5.484A 5.516B 5.517A ADD 5.A116 (Earth-to-space) 5.520 INTER-SATELLITE ADD 5.A117 MOBILE	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) SOM1.1 INTER-SATELLITE MOBILE SOM1.1	Fixed links Fixed satellite systems BSS feeder links	The use of this band by a nongeostationarysatellite system in the fixedsatellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.484A) Resolution 143 (Rev.WRC19) applies. (5.516B) The fixedsatellite service (Earthtospace) is limited to feeder links of geostationarysatellite systems in the broadcastingsatellite service. (5.520) This Band is also allocated to the meteorologicalsatellite service (spacetoEarth) on a primary basis limited to geostationary satellites. (5.519) Pointpoint links (Channel plan as per ITUR F.595)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
5.519 5.521	SOM 7, SOM 12		
18.4-18.6	18.4-18.6		
<p>FIXED</p> <p>FIXED-SATELLITE (space-to- Earth) 5.484A 5.516B 5.517A ADD 5.A116</p> <p>INTER-SATELLITE ADD 5.A117</p> <p>MOBILE</p>	<p>FIXED SOM1.1</p> <p>FIXED-SATELLITE (space-to-Earth) , SOM1.1</p> <p>INTER-SATELLITE</p> <p>MOBILE SOM1.1</p>	<p>Fixed links</p> <p>Fixed satellite systems</p> <p>Fixed satellite Gateway downlink</p>	<p>The use of this band by a nongeostationarysatellite system in the fixedsatellite service is subject to application of the provisions of No. 9.12 for coordination with other nongeostationarysatellite systems in the fixedsatellite service. (5.484A)</p> <p>Resolution 143 (Rev.WRC19) applies. (5.516B)</p> <p>Pointpoint links (Channel plan as per ITUR F.595)</p>
18.6-18.8	18.6-18.8		
<p>EARTH EXPLORATIONSATELLITE (passive)</p> <p>FIXED</p> <p>FIXED-SATELLITE (space-to- Earth) 5.517A 5.522B</p> <p>MOBILE except aeronautical mobile</p> <p>Space research (passive)</p>	<p>EARTH EXPLORATIONSATELLITE (passive) SOM1.3</p> <p>FIXED , SOM1.1</p> <p>FIXED-SATELLITE (space-to-Earth) , SOM1.1</p> <p>MOBILE except aeronautical mobile SOM1.1</p> <p>Space research (passive)</p>	<p>Fixed links</p> <p>Fixed satellite systems</p> <p>Earth exploration satellite</p> <p>Fixed satellite</p>	<p>The use of this band by the fixedsatellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (5.522B)</p> <p>Pointpoint links (Channel plan as per ITUR F.595)</p>
5.522A 5.522C	SOM 7, SOM 12		
18.8-19.3	18.8-19.3		
<p>FIXED</p> <p>FIXED-SATELLITE (space-to- Earth) 5.516B 5.517A 5.523A ADD 5.A116</p> <p>INTER-SATELLITE ADD 5.A117</p> <p>MOBILE</p>	<p>FIXED SOM1.1, SOM2.1.2</p> <p>FIXED-SATELLITE (space-to-Earth) SOM1.1</p> <p>INTER-SATELLITE</p> <p>MOBILE SOM1.1</p>	<p>Fixed links</p> <p>Fixed satellite systems</p> <p>Fixed satellite Gateway downlink</p>	<p>Resolution 143 (Rev.WRC19) applies. (5.516B)</p> <p>Pointpoint links (Channel plan ITUR F.595)</p>
19.3-19.7	19.3-19.7		
<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.517A 5.523B 5.523C 5.523D 5.523E</p>	<p>FIXED SOM1.1</p> <p>FIXED-SATELLITE (space-to-Earth) (Earth-to-space) , SOM1.1</p>	<p>Fixed links</p>	<p>The use of this band (Earthospace) by the fixedsatellite service is limited to feeder links for nongeostationarysatellite systems in the mobilesatellite service. (5.523B)</p> <p>Pointpoint links (Channel plan ITUR F.595)</p>

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
INTER-SATELLITE ADD 5.A117 ADD 5.523X MOBILE	INTER-SATELLITE MOBILE SOM1.1	Fixed satellite Gateway downlink	
	SOM 7, SOM 12		
19.7-20.1	19.7-20.1		
FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.527A ADD 5.A116 INTER-SATELLITE ADD 5.A117 Mobile-satellite (space-to-Earth)	FIXED-SATELLITE (space-to-Earth) , SOM1.1 FIXED MOBILE INTER-SATELLITE Mobile-satellite (space-to-Earth) SOM1.1	Fixed satellite User downlink	Resolution 155 (WRC15) shall apply. (5.484B) Resolution 143 (Rev.WRC19) applies. (5.516B) The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC15). (5.527A) For command and nonpayload communications of UAS (RPAS C2 link in ICAO).
5.524	SOM 7, SOM 12		
20.1-20.2	20.1-20.2		
FIXED-SATELLITE (space-to-Earth) 5.484 A 5.484B 5.516B 5.527A ADD 5.A116 INTER-SATELLITE ADD 5.A117 MOBILE-SATELLITE (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) , SOM1.1 MOBILE INTER-SATELLITE ADD 5.A117 MOBILE-SATELLITE (space-to-Earth) SOM1.1		Resolution 155 (WRC15) shall apply. (5.484B) Resolution 143 (Rev.WRC19) applies. (5.516B) The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC15). (5.527A) For command and nonpayload communications of UAS (RPAS C2 link in ICAO).
5.524 5.525 5.526 5.527 5.528	SOM 7, SOM 12		
20.2-21.2	20.2-21.2		
FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE MOBILE-SATELLITE (space-to-Earth) SOM2.1 Standard frequency and time signal-satellite (space-to-Earth) SOM2.1		This Band is also allocated to the fixed and mobile services on a primary basis. (5.524)
5.524 ADD 5.B7(C)3	SOM 7, SOM 12		
21.2-21.4	21.2-21.4		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 MOBILE SOM1.1 SPACE RESEARCH (passive)	Fixed links	Pointpoint linkssimplex (Channel plan ITUR F.637)
	SOM 7		
21.4-22	21.4-22		
FIXED MOBILE BROADCASTING-SATELLITE 5.208B	FIXED SOM1.1 MOBILE SOM1.1 BROADCASTING-SATELLITE SOM1.1	Fixed links	Resolution 739 (Rev.WRC19) applies. (5.208B) Point to point links simplex (Channel plan ITUR F.637)
5.530A 5.530B	SOM 7, SOM12		
22-22.2	22-22.2		
FIXED MOBILE except aeronautical mobile ADD 5.B110 ADD 5.C110 ADD 5.D110 ADD 5.E110 ADD 5.F110	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links	Pointpoint links (Channel plan ITUR F.637)
5.149	SOM 7, SOM 16		
22.2 – 22.21	22.2 – 22.21		
FIXED MOBILE except aeronautical mobile	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1	Fixed links	Pointpoint links (Channel plan ITUR F.637)
5.149	SOM 7, SOM 16		
22.21-22.5	22.21-22.5		
EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 RADIO ASTRONOMY SPACE RESEARCH (passive)	Fixed links	The use of this band by the Earth explorationsatellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services. (5.532) Pointpoint links (Channel plan ITUR F.637)
5.149 5.532	SOM 7, SOM 16		
22.5-22.55	22.5-22.55		
FIXED MOBILE	FIXED SOM1.1 MOBILE SOM1.1	Fixed links	Pointpoint links (Channel plan ITUR F.637)
	SOM 7		
22.55-23.15	22.55-23.15		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-to-space) 5.532A	FIXED SOM1.1 INTER-SATELLITE , SOM1.3 MOBILE SOM1.1 SPACE RESEARCH (Earth-to-space)	Fixed links SRS	Resolution 750 (Rev.WRC19) applies. (5.338A) Pointpoint links (Channel plan ITUR F.637)
5.149	SOM 7, SOM 16		
23.15-23.55	23.15-23.55		
FIXED INTER-SATELLITE 5.338A MOBILE	FIXED SOM1.1 INTER-SATELLITE , SOM1.3 MOBILE SOM1.1	Fixed links	Resolution 750 (Rev.WRC19) applies. (5.338A) Pointpoint links (Channel plan ITUR F.637)
	SOM 7		
23.55-23.6	23.55-23.6		
FIXED MOBILE	FIXED SOM1.1 MOBILE SOM1.1	Fixed links	Pointpoint links (Channel plan ITUR F.637)
	SOM 7		
23.6-24	23.6-24		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.340	SOM 15		
24-24.05	24-24.05		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1		For ISM in 2424.25 GHz. (5.150)
5.150			
24.05-24.25	24.05-24.25		
RADIOLOCATION Amateur Earth exploration-satellite (active)	RADIOLOCATION SOM3.1 Amateur SOM1.1.2 Earth exploration-satellite (active) SOM1.3	SRD: Radio determination Applications Tank Level Probing Radar (TLPR)	For ISM in 2424.25 GHz. (5.150)
5.150	SOM 5		
24.25-24.45	24.25-24.45		
FIXED MOBILE except aeronautical mobile 5.338A 5.532AB	FIXED SOM1.1, SOM2.1.2 MOBILE except aeronautical mobile	SRD: Tank Level Probing Radar (TLPR)	Resolution 750 (Rev.WRC19) applies. (5.338A) This Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
			Fixed Wireless Access (Channel plan ITUR F.748)
	SOM 5		
24.45-24.65	24.45-24.65		
FIXED	FIXED SOM1.1, SOM2.1.2	Fixed links	Resolution 750 (Rev.WRC19) applies. (5.338A) This Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB)
INTER-SATELLITE	INTER-SATELLITE SOM1.3	SRD:	
MOBILE except aeronautical mobile 5.338A 5.532AB	MOBILE except aeronautical mobile	Tank Level Probing Radar (TLPR) Fixed Wireless Access Intersatellite links	
	SOM 5, SOM 7		
24.65-24.75	24.65-24.75		
FIXED	FIXED SOM1.1	Fixed links	Resolution 750 (Rev.WRC19) applies (5.338A) This Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB) The use of this band by the fixedsatellite service (Earthospace) is limited to earth stations using a minimum antenna diameter of 4.5 m. (5.532B) Fixed Wireless Access (Channel plan ITUR F.748)
FIXED-SATELLITE (Earth-to- space) 5.532B	FIXED-SATELLITE (Earth-to-space) , SOM1.1	SRD:	
INTER-SATELLITE	INTER-SATELLITE SOM1.3	Tank Level Probing Radar (TLPR) Intersatellite links	
	SOM 5, SOM 7		
24.75-25.25	24.75-25.25		
FIXED	FIXED SOM1.1	Fixed links	Resolution 750 (Rev.WRC19) applies (5.338A) The Use this Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB) The use of this band by the fixedsatellite service (Earthospace) is limited to earth stations using a minimum antenna diameter of 4.5 m. (5.532B) Fixed wireless access Fixed links (Channel plan ITUR F.748)
FIXED-SATELLITE (Earth-to-space) 5.532B	FIXED-SATELLITE (Earth-to-space) , SOM1.1	SRD:	
MOBILE except aeronautical mobile 5.338A 5.532AB	MOBILE except aeronautical mobile	Tank Level Probing Radar (TLPR)	
	SOM 5, SOM 7		
25.25-25.5	25.25-25.5		
FIXED	FIXED SOM1.1	Fixed links	Resolution 750 (Rev.WRC19) applies. (5.338A)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
INTER-SATELLITE 5.536 MOBILE 5.338A 5.532AB Standard frequency and time signal-satellite (Earth-to-space)	INTER-SATELLITE SOM1.3, SOM2.1 MOBILE SOM1.1 Standard frequency and time signal-satellite (Earth-to-space), SOM1.5	SRD: Tank Level Probing Radar (TLPR)	The use of this Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB) Fixed links (Channel plan ITUR F.748)
	SOM 5, SOM 7		
25.5-27	25.5-27		
EARTH EXPLORATION-SATELLITE (space-to Earth) 5.536B FIXED 5.534A INTER-SATELLITE 5.536 MOBILE 5.338A 5.532AB SPACE RESEARCH (space-to- Earth) 5.536C Standard frequency and time signal-satellite (Earth-to-space)	EARTH EXPLORATION-SATELLITE (space-to Earth) , SOM1.3 FIXED , SOM2.1 INTER-SATELLITE , SOM1.3, SOM2.1 MOBILE , SOM2.1 SPACE RESEARCH (space-to-Earth) SOM1.3 Standard frequency and time signal-satellite (Earth-to-space) SOM1.5	Fixed links SRD: Tank Level Probing Radar (TLPR)	Resolution 750 (Rev.WRC19) applies. (5.338A) The use of this Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB) Fixed Wireless Access Fixed links (Channel plan ITUR F.748)
5.536A	SOM 5, SOM 7		
27-27.5	27-27.5		
FIXED INTER-SATELLITE 5.536 MOBILE 5.338A 5.532AB	FIXED SOM2.1 INTER-SATELLITE , SOM2.1, SOM1.3 MOBILE SOM2.1	Space Research and earth exploration applications	Resolution 750 (Rev.WRC19) applies. (5.338A) The use of this Band is identified for implement the terrestrial component of International Mobile Telecommunications (IMT). Resolution 242 (WRC19) applies. (5.532AB) Pointpoint links (Channel plan ITUR F.748)
	SOM 7		
27.5-28.5	27.5-28.5		
FIXED 5.537A FIXED-SATELLITE (Earth-to- space) 5.484A 5.516B 5.517A 5.539 ADD 5.A116	FIXED , SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1	Fixed links Fixed satellite systems	This Band is also allocated to the fixedsatellite service (space to Earth) on a primary basis for the beacon transmissions intended for uplink power control. (5.538) This band may be used by the fixedsatellite service (Earthtospace) for the provision of feeder links for the broadcastingsatellite service. (5.539)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
INTER-SATELLITE ADD 5.A117 MOBILE	INTER-SATELLITE MOBILE SOM1.1	Fixed satellite Gateway Uplink	This band is also allocated to the fixedsatellite service (spacetoEarth) on a secondary basis for beacon transmissions intended for uplink power control. (5.540) Resolution 169 (WRC19) applies. (5.517A) Point to point links FWA (broadband) (Channel plan ITUR F.748)
5.538 5.540	SOM 7, SOM 12		
28.5-29.1	28.5-29.1		
FIXED FIXED-SATELLITE (Earth-to- space) 5.484A 5.516B 5.517A 5.523A 5.539 ADD 5.A116 INTER-SATELLITE ADD 5.A117 MOBILE Earth exploration-satellite (Earth- to-space) 5.541	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1 INTER-SATELLITE MOBILE SOM1.1 Earth exploration-satellite (Earth-to-space) , SOM1.1	Fixed links Fixed satellite systems Fixed satellite User uplink	This band may be used by the fixedsatellite service (Earthospace) for the provision of feeder links for the broadcastingsatellite service. (5.539) This band is also allocated to the fixedsatellite service (spacetoEarth) on a secondary basis for beacon transmissions intended for uplink power control. (5.540) Resolution 169 (WRC19) applies. (5.517A) The earth explorationsatellite 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. (5.541)
5.540	SOM 7, SOM 12		
29.1-29.5	29.1-29.5		
FIXED FIXED-SATELLITE (Earth-to- space) 5.516B 5.517A 5.523C 5.523E 5.535A 5.539 5.541A INTER-SATELLITE ADD 5.A117 MOBILE Earth exploration-satellite (Earth- to-space) 5.541	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) , SOM1.1 INTER-SATELLITE MOBILE SOM1.1 Earth exploration-satellite (Earth-to-space) , SOM1.3	Fixed links Fixed satellite systems Fixed satellite Gateway Uplink	This band is also allocated to the fixedsatellite service (spacetoEarth) on a secondary basis for beacon transmissions intended for uplink power control. (5.540) Point to point links FWA (broadband) (Channel plan ITUR F.748)
5.540	SOM 7, SOM 12		
29.5-29.9	29.5-29.9		
FIXED-SATELLITE (Earth-to- space) 5.484A 5.484B 5.516B 5.527A 5.539 ADD 5.A116	FIXED-SATELLITE (Earth-to-space) , SOM1.1	Fixed satellite systems	This Band is also allocated to the fixed and mobile services on a secondary basis. (5.542)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
<p>INTER-SATELLITE ADD 5.A117</p> <p>Earth exploration-satellite (Earth-to-space) 5.541</p> <p>Mobile-satellite (Earth-to-space)</p>	<p>INTER-SATELLITE</p> <p>Fixed</p> <p>Mobile</p> <p>Earth exploration-satellite (Earth-to-space) , SOM1.3</p> <p>Mobile-satellite (Earth-to-space) SOM1.1</p>	<p>Fixed satellite User uplink</p>	<p>This band may be used by the fixedsatellite service (EarthtoSpace) for the provision of feeder links for the broadcastingsatellite service. (5.539)</p> <p>Resolution 143 (Rev.WRC19) applies. (5.516B)</p> <p>The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC15). (5.527A)</p> <p>The band is also allocated to the fixedsatellite service (spacetoEarth) on a secondary basis for beacon transmissions intended for uplink power control. (5.540)</p> <p>The earth explorationsatellite 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. (5.541)</p> <p>Resolution 155 (WRC15) shall apply. (5.484B)</p> <p>For command and nonpayload communications of UAS (RPAS C2 link in ICAO).</p>
<p>5.540 5.542</p>	<p>SOM 7, SOM 12</p>		
<p>29.9-30</p>	<p>29.9-30</p>		
<p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.527A 5.539</p> <p>ADD 5.A116</p> <p>INTER-SATELLITE ADD 5.A117</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>Earth exploration-satellite (Earth-to-space) 5.541 5.543</p>	<p>FIXED-SATELLITE (Earth-to-space) , SOM1.1</p> <p>INTER-SATELLITE</p> <p>MOBILE-SATELLITE (Earth-to-space) SOM1.1</p> <p>Fixed</p> <p>Mobile</p> <p>Earth exploration-satellite (Earth-to-space) , SOM1.3</p>	<p>Fixed satellite systems</p>	<p>This Band is also allocated to the fixedsatellite service (space to Earth) on a primary basis for the beacon transmissions intended for uplink power control. (5.538)</p> <p>This band may be used by the fixedsatellite service (EarthtoSpace) for the provision of feeder links for the broadcastingsatellite service. (5.539)</p> <p>The band is also allocated to the fixedsatellite service (spacetoEarth) on a secondary basis for beacon transmissions intended for uplink power control. (5.540)</p> <p>The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (WRC15). (5.527A)</p> <p>Resolution 155 (WRC15) shall apply. (5.484B)</p> <p>For command and nonpayload communications of UAS (RPAS C2 link in ICAO).</p>
<p>5.525 5.526 5.527 5.538 5.540 5.542</p>	<p>SOM 7, SOM 12</p>		
<p>30-31</p>	<p>30-31</p>		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth)	FIXED-SATELLITE (Earth-to-space) , SOM2.1 MOBILE-SATELLITE (Earth-to-space) SOM2.1 Fixed Mobile Standard frequency and time signal-satellite (space-to-Earth) SOM1.5	Fixed satellite systems	Resolution 750 (Rev.WRC19) applies (5.338A) The band 29.531 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. (5.542)
5.542 ADD 5.B7(C)3	SOM 7, SOM 12		
31.3-31.3	31.3-31.3		
FIXED 5.338A 5.543B MOBILE Standard frequency and time signal-satellite (space-to-Earth) Space research 5.544 5.545	FIXED , SOM1.1 MOBILE SOM1.1 Standard frequency and time signal-satellite (space-to-Earth) SOM1.5 Space research	Fixed links	Resolution 750 (Rev.WRC19) applies (5.338A) The allocation to the fixed service in this band is identified for worldwide use by highaltitude platform stations (HAPS) and shall be in accordance with the provisions of Resolution 167 (WRC19). (5.543B) Fixed (Channel plan ITUR F.746) HAPS
5.149	SOM 7, SOM 16		
31.3-31.5	31.3-31.5		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340	SOM 15		
31.5-31.8	31.5-31.8		
EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	EARTH EXPLORATIONSATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed SOM1.1 Mobile except aeronautical mobile SOM1.1		
5.149 5.546	SOM 7, SOM 16		
31.8-32	31.8-32		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)	FIXED , SOM1.1 RADIONAVIGATION SOM1.1 SPACE RESEARCH (deep space) (space-to-Earth)		This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000) applies. (5.547) For groundbased airport surface detection equipment (ASDE) radar ICAO Annex 10 Fixed links (Channel plan ITUR F.1520)
5.547 5.547B 5.548	SOM 7		
32-32.3	32-32.3		
FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)	FIXED , SOM1.1, SOM2.1.2 RADIONAVIGATION SOM1.1 SPACE RESEARCH (deep space) (space- to-Earth)	Fixed links Radionavigation	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) For groundbased airport surface detection equipment (ASDE) radar ICAO Annex 10 Fixed (Channel plan ITUR F.1520)
5.547 5.547C 5.548	SOM 7		
32.3-33	32.3-33		
FIXED 5.547A INTER-SATELLITE RADIONAVIGATION	FIXED , SOM1.1 INTER-SATELLITE SOM1.3 RADIONAVIGATION SOM1.1	Fixed links	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) For groundbased airport surface detection equipment (ASDE) radar ICAO Annex 10 Fixed (Channel plan ITUR F.1520)
5.547 5.547D 5.548	SOM 7		
33-33.4	33-33.4		
FIXED 5.547A RADIONAVIGATION	FIXED , SOM1.1 RADIONAVIGATION SOM1.1	Fixed links	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) For groundbased airport surface detection equipment (ASDE) radar ICAO Annex 10 Fixed (Channel plan ITUR F.1520)
5.547 5.547E	SOM 7		
33.4-34.2	33.4-34.2		
RADIOLOCATION	FIXED MOBILE	Fixed links	This band is allocated to the fixed and mobile services on a primary basis (5.549)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
	RADIOLOCATION SOM2.1		
5.549	SOM 7		
34.2-34.7	34.2-34.7		
RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)	RADIOLOCATION SOM2.1 SPACE RESEARCH (deep space) (Earth-to-space)	Fixed links	This band is allocated to the fixed and mobile services on a primary basis. (5.549)
5.549	SOM 7		
34.7-35.2	34.7-35.2		
RADIOLOCATION Space research 5.550	RADIOLOCATION SOM2.1 Space research		
5.549	SOM 7		
35.2-35.5	35.2-35.5		
METEOROLOGICAL AIDS RADIOLOCATION	METEOROLOGICAL AIDS SOM1.6 RADIOLOCATION , SOM2.1		
5.549	SOM 7		
35.5-36	35.5-36		
METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)	METEOROLOGICAL AIDS SOM1.6 EARTH EXPLORATION-SATELLITE (active) SOM1.3 RADIOLOCATION SOM2.1 SPACE RESEARCH (active)		
5.549 5.549A	SOM 7		
36-37	36-37		
EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3, SOM1.6 FIXED SOM2.1 MOBILE SOM2.1 SPACE RESEARCH (passive)		Fixed (Channel plan ITUR F.749)
5.149 5.550A	SOM 7, SOM 16		
37-37.5	37-37.5		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to- Earth)	FIXED SOM1.1 MOBILE except aeronautical mobile SOM1.1 SPACE RESEARCH (space-to-Earth)	Fixed links	This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B) This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547) Fixed (Channel plan ITUR F.749)
5.547	SOM 7		
37.5-38	37.5-38		
FIXED FIXED-SATELLITE (space-to-Earth) 5.550C ADD 5.A91D MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to- Earth) Earth exploration-satellite (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE except aeronautical mobile SOM1.1 SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth) SOM1.3	Fixed links	This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B) This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547) Fixed, Fixed Wireless Access (Channel plan for Fixed: ITUR F.749)
5.547	SOM 7		
38-39.5	38-39.5		
FIXED 5.550D FIXED-SATELLITE (space-to-Earth) 5.550C MOBILE 5.550B Earth exploration-satellite (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE SOM1.1 Earth exploration-satellite (space-to-Earth) SOM1.3	Fixed links Fixed, Fixed Wireless Access (Channel plan for Fixed: ITUR F.749)	The allocation to the fixed service in this band is identified for worldwide use by administrations wishing to implement highaltitude platform stations (HAPS) and shall be in accordance with the provisions of Resolution 168 (WRC19). (5.550d) This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B) This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547)
5.547	SOM 7		
39.5-40	39.5-40		
FIXED FIXED-SATELLITE (space-to- Earth) 5.516B 5.550C	FIXED SOM2.1 FIXED-SATELLITE (space-to-Earth) , SOM2.1	Fixed links	This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547) The use of this band by a nongeostationarysatellite system in the fixed

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE 5.550B	MOBILE SOM2.1		satellite service is subject to the application of the provisions of No. 9.12. (5.550C)
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth) SOM2.1		This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B)
Earth exploration-satellite (space-to-Earth)	Earth exploration-satellite (space-to-Earth) SOM1.3		Fixed (Channel plan ITUR F.749)
5.547 5.550E	SOM 7		
40-40.5	40-40.5		
EARTH EXPLORATION-SATELLITE (Earth-to-space)	EARTH EXPLORATION-SATELLITE (Earth-to-space) SOM1.1		The use of this band by a nongeostationarysatellite system in the fixed satellite service is subject to the application of the provisions of No. 9.12. (5.550C)
FIXED	FIXED SOM2.1		This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B)
FIXED-SATELLITE (space-to- Earth) 5.516B 5.550C	FIXED-SATELLITE (space-to-Earth) SOM2.1		Fixed (Channel plan ITUR F.749)
MOBILE 5.550B	MOBILE , SOM2.1		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth) SOM2.1		
SPACE RESEARCH (Earth-to-space)	SPACE RESEARCH (Earth-to-space)		
Earth exploration-satellite (space-to-Earth)	Earth exploration-satellite (space-to-Earth), SOM1.3		
5.550E	SOM 7		
40.5-41	40.5-41		
FIXED	FIXED SOM1.1	Fixed	This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B)
FIXED-SATELLITE (space-to-Earth) 5.550C	FIXED-SATELLITE (space-to-Earth) , SOM1.1	Fixed Wireless Access (broadband)	This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547)
LAND MOBILE 5.550B BROADCASTING	LAND MOBILE BROADCASTING , SOM1.1		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE SOM1.1		
Aeronautical mobile	Aeronautical mobile		
Maritime mobile	Maritime mobile SOM1.1		
5.547	SOM 7		
41-42.5	41-42.5		
FIXED	FIXED SOM1.1	Fixed	This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED-SATELLITE (space-to- Earth) 5.516B 5.550C LAND MOBILE 5.550B BROADCASTING BROADCASTING-SATELLITE Aeronautical mobile Maritime mobile	FIXED-SATELLITE (space-to-Earth) , SOM1.1 LAND MOBILE BROADCASTING SOM1.1 BROADCASTING-SATELLITE SOM1.1 Aeronautical mobile Maritime mobile	Fixed Wireless Access (broadband)	This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547)
5.547 5.551F 5.551H 5.551I	SOM 7		
42.5-43.5	42.5-43.5		
FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile 5.550B RADIO ASTRONOMY	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space , SOM1.1 MOBILE except aeronautical mobile SOM1.1 RADIO ASTRONOMY	Fixed FWA (broadband)	This band or portions thereof, is identified for the terrestrial component of IMT. (5.550B) This band is available for highdensity applications in the fixed service Resolution 75 (WRC2000). (5.547)
5.149 5.547	SOM 7, SOM 16		
43.5-47	43.5-47		
MOBILE 5.553 5.553A MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE	MOBILE , SOM1.1 MOBILE-SATELLITE SOM1.1 RADIONAVIGATION SOM1.1 RADIONAVIGATION-SATELLITE SOM1.1		The band 45.5 – 47 GHz band is identified for IMT. (5.553A), This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution 244 (Rev.WRC-23) applies. (WRC-23)
5.554			
47-47.2	47-47.2		
AMATEUR AMATEUR-SATELLITE	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1		Amateur User license required
47.2-47.5	47.2-47.5		
FIXED	FIXED SOM1.1	Fixed HAPs	This band is identified for IMT. (5.553B)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED-SATELLITE (Earth-to- space) 5.550C 5.552	FIXED-SATELLITE (Earth-to-space) SOM1.1		The allocation to the fixed service in the frequency bands 47.2 - 47.5 GHz and 47.9 - 48.2 GHz is identified for use by high altitude platform stations (HAPS) and shall be in accordance with the provisions of Resolution 122 (Rev.WRC19). (5.552A)
MOBILE 5.553B	MOBILE SOM1.1		
5.552A			
47.5-47.9	47.5-47.9		
FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (space-to- Earth) 5.516B 5.554A MOBILE 5.553B	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) (space-to- Earth) SOM1.1 MOBILE SOM1.1	Fixed HAPs	This band is identified for IMT. (5.553B).
47.9-48.2	47.9-48.2		
FIXED FIXED-SATELLITE(EARTH-to- space) 5.550C 5.552	FIXED SOM1.1 FIXED-SATELLITE(EARTH-to-space) SOM1.1		This band is identified for IMT. (5.553B). The allocation to the fixed service in the frequency bands 47.2 - 47.5 GHz and 47.9 - 48.2 GHz is identified for use by high altitude platform stations (HAPS) and shall be in accordance with the provisions of Resolution 122 (Rev.WRC19). (5.552A)
MOBILE 5.553B	MOBILE SOM1.1		
5.552A			
48.2-48.54	48.2-48.54		
FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (space-to- Earth) 5.516B 5.554A 5.555B MOBILE	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) (space-to- Earth) SOM1.1 MOBILE SOM1.1	Fixed HAPs	
48.54-49.44	48.54-49.44		
FIXED FIXED-SATELLITE (Earth-to- space) 5.550C 5.552 MOBILE	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) SOM1.1 MOBILE SOM1.1	Fixed HAPs	All emissions are prohibited in this band. (5.340)
5.149 5.340 5.555	SOM 13, SOM 15, SOM 16		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
49.44-50.2	49.44-50.2		
FIXED FIXED-SATELLITE (Earth-to- space) 5.338A 5.550C 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	FIXED SOM1.1 FIXED-SATELLITE (Earth-to- space) (space-to-Earth) , SOM1.1 MOBILE SOM1.1		Resolution 750 (Rev.WRC19) applies. (5.338A).
50.2-50.4	50.2-50.4		
EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340	SOM 15		
50.4-51.4	50.4-51.4		
FIXED FIXED-SATELLITE (Earth-to- space) 5.338A 5.550C MOBILE Mobile-satellite (Earth-to-space)	FIXED SOM2.1, SOM3.1 FIXED-SATELLITE (Earth-to-space) , SOM2.1 MOBILE SOM1.1 Mobile-satellite (Earth-to-space) SOM2.1	Fixed links	Resolution 750 (Rev.WRC19) applies. (5.338A).
51.4-52.4	51.4-52.4		
FIXED FIXED-SATELLITE (Earth-to-space) 5.555C MOBILE	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) MOBILE SOM1.1		Resolution 750 (Rev.WRC19) applies. (5.338A). This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547)
5.338A 5.547 5.556	SOM 13		
52.4-52.6	52.4-52.6		
FIXED 5.338A MOBILE	FIXED , SOM1.1 MOBILE SOM1.1		Resolution 750 (Rev.WRC19) applies. (5.338A) This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) Fixed (Channel plan ITUR F.1496)
5.547 5.556	SOM 13		
52.6-54.25	52.6-54.25		
EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340 5.556	SOM 13, SOM 15		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
54.25-55.78	54.25-55.78		
EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 INTER-SATELLITE , SOM1.3 SPACE RESEARCH (passive)		
5.556B			
55.78-56.9	55.78-56.9		
EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) SOM1.3 FIXED , SOM1.1 INTER-SATELLITE , SOM1.3 MOBILE , SOM1.1 SPACE RESEARCH (passive)		This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547)
5.547 5.557			
56.9-57	56.9-57		
EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACERESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 INTER-SATELLITE , SOM1.3 MOBILE , SOM1.1 SPACERESEARCH (passive)		This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) Fixed (Channel plan ITUR F.1497)
5.547 5.557			
57-58.2	57-58.2		
EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 INTER-SATELLITE , SOM1.3 MOBILE , SOM1.1 SPACE RESEARCH (passive)	Fixed links SRD: Multiple GIGABIT wireless systems WAS/RLANS Tank Level Probing Radar (TLPR)	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) Fixed (Channel plan ITUR F.1497)
5.547 5.557	SOM 5, SOM 7		
58.2-59	58.2-59		
EARTH EXPLORATION-SATELLITE (passive) FIXED	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1	SRD: Multiple GIGABIT wireless systems WAS/RLANS	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547) Fixed (Channel plan ITUR F.1497)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE SPACE RESEARCH (passive)	MOBILE SOM1.1 SPACE RESEARCH (passive)	Tank Level Probing Radar (TLPR)	
5.547 5.556	SOM 5, SOM 13		
59-59.3	59-59.3		
EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED SOM1.1 INTER-SATELLITE , SOM1.1 MOBILE , SOM1.1 RADIOLOCATION , SOM2.1 SPACE RESEARCH (passive)	SRD: Multiple GIGABIT wireless systems WAS/RLANS Tank Level Probing Radar (TLPR) Fixed	
	SOM 5		
59.3-64	59.3-64		
FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559	FIXED SOM1.1 INTER-SATELLITE SOM1.3 MOBILE , SOM1.1 RADIOLOCATION , SOM2.1	SRD: Measurement and Remotecontrol equipment Multiple GIGABIT wireless systems WAS/RLANS Tank Level Probing Radar (TLPR)	ISM usage in 6161.5 GHz is subject to authorization from NTRA. (5.138)
5.138	SOM 5		
64-65	64-65		
FIXED INTER-SATELLITE MOBILE except aeronautical mobile	FIXED SOM1.1 INTER-SATELLITE SOM1.3 MOBILE except aeronautical mobile SOM1.1	SRD: Multiple GIGABIT wireless systems WAS/RLANS	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547)
5.547 5.556	SOM 5, SOM 13		
65-66	65-66		
EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH	EARTH EXPLORATION-SATELLITE SOM1.3 FIXED SOM1.1 INTER-SATELLITE SOM1.3 MOBILE except aeronautical mobile SOM1.1 SPACE RESEARCH	SRD: Multiple GIGABIT wireless systems WAS/RLANS	This band is available for highdensity applications in the fixed service. Resolution 75 (WRC2000) applies. (5.547)
5.547	SOM 5		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
66-71	66-71		
INTER-SATELLITE MOBILE 5.553 5.558 5.559AA MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE	INTER-SATELLITE SOM1.3 MOBILE , SOM1.1 MOBILE-SATELLITE SOM1.1 RADIONAVIGATION SOM1.1 RADIONAVIGATION-SATELLITE SOM1.1		This band is identified for the terrestrial component of IMT. (5.559AA)
5.554			
71-74	71-74		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM2.1 MOBILE SOM1.1 MOBILE-SATELLITE (space-to-Earth) SOM2.1		
	SOM 7		
74-76	74-76		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE SOM1.1 BROADCASTING SOM1.1 BROADCASTING-SATELLITE SOM1.1 Space research (space-to-Earth)	Fixed links SRD: Tank Level Probing Radar (TLPR)	
5.561	SOM 5, SOM 7		
76-77.5	76-77.5		
RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth)	RADIO ASTRONOMY RADIOLOCATION SOM1.1 Amateur SOM1.1 Amateur-satellite SOM1.1 Space research (space-to-Earth)	SRD: Tank Level Probing Radar (TLPR) Vehicle radar Sensor Short range automotive radar (7677 GHz)	
5.149	SOM 5, SOM 16		
77.5-78	77.5-78		
AMATEUR	AMATEUR SOM1.1	SRD:	The use of the band by the radiolocation service shall be limited to shortrange radar for groundbased applications, including automotive radars. (5.559B)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
AMATEUR-SATELLITE	AMATEUR-SATELLITE SOM1.1	Tank Level Probing Radar (TLPR)	
RADIOLOCATION 5.559B	RADIOLOCATION , SOM1.1	Short range automotive radar (77.578 GHz)	
Radio astronomy Space research (space-to-Earth)	Radio astronomy Space research (space-to-Earth)		
5.149	SOM 5, SOM 16		
78-79	78-79		
RADIOLOCATION	RADIOLOCATION SOM1.1, SOM2.1	SRD:	
Amateur	Amateur SOM1.1	Tank Level Probing Radar (TLPR)	
Amateur-satellite	Amateur-satellite SOM1.1	Short range automotive radar (77.578 GHz)	
Radio astronomy Space research (space-to-Earth)	Radio astronomy Space research (space-to-Earth)		
5.149 5.560	SOM 5, SOM 16		
79-81	79-81		
RADIO ASTRONOMY	RADIO ASTRONOMY	SRD:	
RADIOLOCATION	RADIOLOCATION SOM1.1, SOM2.1	Tank Level Probing Radar (TLPR)	
Amateur	Amateur SOM1.1.2		
Amateur-satellite	Amateur-satellite SOM1.1.2		
Space research (space-to-Earth)	Space research (space-to-Earth)		
5.149	SOM 5, SOM 16		
81-84	81-84		
FIXED 5.338A	FIXED , SOM1.1	SRD:	Resolution 750 (Rev.WRC19) applies (5.338A).
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space) SOM2.1	Tank Level Probing Radar (TLPR)	This band is also allocated to the amateur and amateursatellite services on a secondary basis. (5.561A)
MOBILE	MOBILE SOM1.1		
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space) SOM2.1		
RADIO ASTRONOMY	RADIO ASTRONOMY		
Space research (space-to-Earth)	Space research (space-to-Earth)		
5.149 5.561A	SOM 5, SOM 7, SOM 16		
84-86	84-86		
FIXED 5.338A	FIXED , SOM1.1	Fixed links	Resolution 750 (Rev.WRC19) applies. (5.338A).
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space) , SOM1.1	SRD:	
5.561B			

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
MOBILE	MOBILE SOM1.1	Tank Level Probing Radar (TLPR)	
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149	SOM 5, SOM 7, SOM 16		
86-92	86-92		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)		All emissions are prohibited in this band. (5.340)
RADIO ASTRONOMY	SOM1.3		
SPACE RESEARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.340	SOM 15		
92-94	92-94		
FIXED 5.338A	FIXED , SOM1.1		Resolution 750 (Rev.WRC19) applies. (5.338A)
MOBILE	MOBILE SOM1.1		
RADIO ASTRONOMY RADIOLOCATION	RADIO ASTRONOMY RADIOLOCATION SOM2.1		
5.149	SOM 16		
94-94.1	94-94.1		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)		
RADIOLOCATION	SOM1.3		
SPACE RESEARCH (active)	RADIOLOCATION SOM2.1		
Radio astronomy	SPACE RESEARCH (active)		
5.562 5.562A	Radio astronomy		
94.1-95	94.1-95		
FIXED	FIXED SOM1.1		
MOBILE	MOBILE SOM1.1		
RADIO ASTRONOMY RADIOLOCATION	RADIO ASTRONOMY RADIOLOCATION SOM1.1, SOM2.1		
5.149	SOM 16		
95-100	95-100		
FIXED	FIXED SOM1.1		
MOBILE	MOBILE SOM1.1		
RADIO ASTRONOMY	RADIO ASTRONOMY SOM1.4		
RADIOLOCATION	RADIOLOCATION SOM1.1		
RADIONAVIGATION	RADIONAVIGATION SOM1.1		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE SOM1.1		
5.149 5.554	SOM 16		
100-102	100-102		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340 5.341	SOM 15		
102-105	102-105		
FIXED MOBILE RADIO ASTRONOMY	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY		
5.149 5.341	SOM 16		
105-109.5	105-109.5		
FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.149 5.341	SOM 13, SOM 16		
109.5-111.8	109.5-111.8		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340 5.341	SOM 15		
111.8-114.25	111.8-114.25		
FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.149 5.341	SOM 13, SOM 16		
114.25-116	114.25-116		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340 5.341	SOM 15		
116-119.98	116-119.98		
EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 INTER-SATELLITE SOM1.3		The use of this band by the intersatellite service is limited to satellites in the geostationary satellite orbit. (5.562C)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.341			
119.98-122.25	119.98-122.25		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3		ISM usage in 122123 GHz is subject to authorization (5.138) The use of this band by the intersatellite service is limited to satellites in the geostationary satellite orbit. (5.562C)
INTER-SATELLITE 5.562C	INTER-SATELLITE SOM1.3		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive) SOM1.3		
5.138 5.341			
122.25-123	122.25-123		
FIXED	FIXED SOM1.1		ISM usage in 122123 GHz is subject to authorization . (5.138)
INTER-SATELLITE	INTER-SATELLITE SOM1.3		
MOBILE 5.558 Amateur	MOBILE , SOM1.1 Amateur SOM1.1		
5.138			
123-130	123-130		
FIXED-SATELLITE(space-to-Earth)	FIXED-SATELLITE (space-to- Earth) SOM1.1		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to- Earth) SOM1.1		
RADIONAVIGATION RADIONAVIGATION- SATELLITE Radio astronomy 5.562D	RADIONAVIGATION SOM1.1 RADIONAVIGATION-SATELLITE SOM1.1 Radio astronomy		
5.149 5.554	SOM 16		
130-134	130-134		
EARTH EXPLORATION- SATELLITE (passive)5.562E	EARTH EXPLORATION-SATELLITE (active) SOM1.3		
FIXED	FIXED SOM1.1		
INTER-SATELLITE	INTER-SATELLITE SOM1.3		
MOBILE 5.558	MOBILE , SOM1.1		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149 5.562A	SOM 16		
134-136	134-136		
AMATEUR	AMATEUR SOM1.1		
AMATEUR-SATELLITE	AMATEUR-SATELLITE SOM1.1		
Radio astronomy	Radio astronomy		
136-141	136-141		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
RADIO ASTRONOMY RADIOLOCATION Amateur Amateur –satellite	RADIO ASTRONOMY RADIOLOCATION SOM1.1 Amateur SOM1.1 Amateur –satellite SOM1.1		
5.149	SOM 16		
141-148.5	141-148.5		
FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY RADIOLOCATION SOM1.1		
5.149	SOM 16		
148.5-151.5	148.5-151.5		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340	SOM 15		
151.5-155.5	151.5-155.5		
FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY RADIOLOCATION SOM1.1		
5.149	SOM 16		
155.5-158.5	155.5-158.5		
FIXED MOBILE RADIO ASTRONOMY	FIXED SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY		
5.149	SOM 13, SOM 16		
158.5-164	158.5-164		
FIXED FIXED-SATELLITE(space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	FIXED SOM1.1 FIXED-SATELLITE (space-to- Earth) SOM1.1 MOBILE SOM1.1 MOBILE-SATELLITE (space-to-Earth) SOM1.1		
164-167	164-167		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY		All emissions are prohibited in this band. (5.340)

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340	SOM 15		
167-174.5	167-174.5		
FIXED	FIXED SOM1.1		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth) SOM1.1		
INTER-SATELLITE	INTER-SATELLITE SOM1.3		
MOBILE 5.558	MOBILE SOM1.1		
5.149 5.562D	SOM 16		
174.5-174.8	174.5-174.8		
FIXED	FIXED SOM1.1		
INTER-SATELLITE	INTER-SATELLITE SOM1.3		
MOBILE 5.558	MOBILE , SOM1.1		
174.8-182	174.8-182		
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3		
INTER-SATELLITE 5.562H	INTER-SATELLITE , SOM1.3		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
182-185	182-185		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3		All emissions are prohibited in this band. (5.340)
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340	SOM 15		
185-190	185-190		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3		
INTER-SATELLITE 5.562H	INTER-SATELLITE , SOM1.3		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
190-191.8	190-191.8		
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3		All emissions are prohibited in this band. (5.340)
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340	SOM 15		
191.8-200	191.8-200		
FIXED	FIXED SOM1.1		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION- SATELLITE	INTER-SATELLITE SOM1.3 MOBILE SOM1.1 MOBILE-SATELLITE SOM1.1 RADIONAVIGATION SOM1.1 RADIONAVIGATION-SATELLITE SOM1.1		
5.149 5.341 5.554	SOM 16		
200-209	200-209		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340 5.341 5.563A	SOM 15		
209-217	209-217		
FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY		
5.149 5.341	SOM 16		
217-226	217-226		
FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY SPACE RESEARCH (passive)		
5.149 5.341	SOM 13, SOM 16		
226-231.5	226-231.5		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive)		All emissions are prohibited in this band. (5.340)
5.340	SOM 15		
231.5- 232	231.5 - 232		
FIXED MOBILE Radiolocation	FIXED SOM1.1 MOBILE SOM1.1 Radiolocation SOM1.1		
232-235	232-235		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE SOM1.1 Radiolocation SOM1.1		
235-238	235-238		
EARTH EXPLORATION-SATELLITE (passive) ADD 5.B114 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 FIXED FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE SPACE RESEARCH (passive)		
5.563A 5.563B			
238-239.2	238-239.2		
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION- SATELLITE	FIXED SOM1.1 FIXED-SATELLITE (space-to-Earth) SOM1.1 MOBILE SOM1.1 RADIOLOCATION SOM1.1 RADIONAVIGATION SOM1.1 RADIONAVIGATION-SATELLITE SOM1.1		
239.2 – 240	239.2 – 240		
EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE	EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE		
240-241	240-241		
EARTH EXPLORATION-SATELLITE (passive) RADIOLOCATION	EARTH EXPLORATION-SATELLITE (passive) RADIOLOCATION		
241-242.2	241-242.2		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149	RADIOLOCATION Amateur Amateur-satellite		
242.2-244.2	242.2-244.2		
RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.138 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite		
244.2-247.2	244.2-247.2		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.138 5.149	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite		
247.2-248	247.2-248		
RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149	RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite		
248-250	248-250		
AMATEUR AMATEUR-SATELLITE Radio astronomy 5.149	AMATEUR SOM1.1 AMATEUR-SATELLITE SOM1.1 Radio astronomy SOM 16		
250-252	250-252		
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A	EARTH EXPLORATION-SATELLITE (passive) SOM1.3 RADIO ASTRONOMY SPACE RESEARCH (passive) SOM 15		All emissions are prohibited in this band. (5.340)
252-265	252-265		
FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)	FIXED SOM1.1 MOBILE SOM1.1 MOBILE-SATELLITE (Earth-to-space) SOM1.1		

ITU RR Region 1 Allocations	Somalia Service Allocation	Main usages	Remarks
RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION- SATELLITE	RADIO ASTRONOMY RADIONAVIGATION SOM1.3 RADIONAVIGATION-SATELLITE SOM1.1		
5.149 5.554	SOM 16		
265-275	265-275		
FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY	FIXED SOM1.1 FIXED-SATELLITE (Earth-to-space) SOM1.1 MOBILE SOM1.1 RADIO ASTRONOMY		
5.149 5.563A	SOM 16		
275-3000	275-3000		
(Not allocated) 5.564A 5.565	(Not allocated)	Measurements for radio astronomy and experimentation	The frequency bands 275296 GHz, 306313 GHz, 318333 GHz and 356450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications. (5.564A)
	SOM 13		

Somalia Footnotes

The following national footnotes are linked to the allocated services, serving as important references that provide specific guidance and information related to each service's usage and regulations within Somalia. These national footnotes play a crucial role in shaping the framework within which the allocated services operate, ensuring compliance with national policies and objectives.

SOM1.1:

Frequencies in this Allocation are exclusively assigned for civilian use. Exceptionally, NCA may agree to the use of these frequencies for military purposes with the Ministry of Defense/Internal Security.

SOM1.1.1:

Frequencies in this Allocation are exclusively assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/Internal Security. NCA coordinates assignments with the Ministry of Defense/Internal Security.

SOM1.1.2:

Frequencies in this Allocation are assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/Internal Security. No protection can be claimed for these assignments and undue interference must not be caused to other users.

SOM1.2:

Frequencies in this allocation are used for Civil Aviation. and these frequencies are exclusively assigned for civilian use.

SOM1.3:

This spectrum is allocated to space communications. Frequencies in this Allocation are exclusively assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/ Internal Security

SOM1.4:

Frequencies in this Allocation are used for space science and meteorology. These frequencies are exclusively assigned for civilian use.

SOM1.5:

Frequencies in this Allocation are used for standardization and measurement purposes and exclusively assigned for civilian use.

SOM1.6:

Frequencies in this Allocation are used for Meteorology. These frequencies are exclusively assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/Internal Security

SOM1.7:

Frequencies in this Allocation are used for Distress and Safety, Search and Rescue and Emergencies. These frequencies are exclusively assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/Internal Security.

SOM1.8:

Frequencies in this Allocation are used for Natural Environment Research. These frequencies are exclusively assigned for civilian use.

SOM2.1:

Frequencies in this Allocation are reserved exclusively for Defense/Internal Security use except where assignments for Civil use are agreed with NCA.

SOM2.1.1:

Frequencies in this Allocation are reserved exclusively for Defense/Internal Security use except where assignments for Civil use are agreed with NCA. Ministry of Defense/Internal Security coordinates permissions with NCA.

SOM2.1.2:

Frequencies in this Allocation are reserved exclusively for Defense/Internal Security use except

where assignments for Civil use are agreed with NCA. No protection can be claimed for these permissions and undue interference must not be caused to other users.

SOM3.1:

Frequencies in this Allocation are exclusively assigned for emergency services use.

SOM3.1.1:

Frequencies in this Allocation are exclusively assigned for emergency services use. Emergency services assignments are coordinated with the Ministry of Defense/Internal Security.

SOM4.1:

Frequencies in this Allocation are used for civil aviation. These frequencies assigned for civilian use except where permissions for military use are agreed with the Ministry of Defense/Internal Security.

The following footnotes are directly linked to the frequency bands, serving as valuable indicators of the national utilization of each band within Somalia. These footnotes offer essential insights into how each band is allocated and managed within the country.

SOM 5:

Frequency bands indicated with (SOM 5) in the allocation table are designated for use by short-range devices. The frequency ranges for short range devices are:

9–600 kHz	401–406 MHz	863–870 MHz	13.4–14 GHz
3.155–3.4 MHz	417.9–418.1 MHz	1880–1900 MHz	24.05–27 GHz
5–49.98 MHz	433.04–434.79 MHz	2400–2483.5 MHz	57–66 GHz
87.5–108 MHz	458.5–459.5 MHz	4500–7000 MHz	75–85 GHz
169.4–216 MHz	470–610 MHz	8500–1060 MHz	

The below ETSI standards defines the usage and Mandatory requirements for short range devices:

- **EN 300 220:** Mandatory requirements for Non-specific Short-range Devices.

- **EN 302 195, EN 302 536, EN 302 510, EN 302 537, EN 301 839:** Mandatory requirements for Active Medical Implants and their associated peripherals.
- **EN 301 406:** Mandatory requirements for Cordless Telephones.
- **EN 300 440, EN 302 372:** Mandatory requirements for Radio Determination applications.
- **EN 300 422, EN 301 357:** Mandatory requirements for Radio Microphone applications.
- **EN 303 447, EN 303 454, EN 300 330:** Mandatory requirements for Inductive Applications.

SOM 6:

Frequencies bands indicated with (SOM 6) in the allocation table are designated for use by private mobile radio. These frequencies are:

1.81– 3.9 MHz	13.4 – 14 MHz	235 – 399.9 MHz
4.488–5.95 MHz	25 – 87.5 MHz	400.05– 406 MHz
7.1 – 8.1 MHz	146 – 223 MHz	406.1 – 470 MHz

SOM 7:

Frequency bands indicated with (SOM 7) in the allocation table are designated for use of fixed links. The frequency ranges for fixed networks are:

1350 – 1530 MHz	9.8 – 14.3 GHz	24.45 – 31.3 GHz	71 – 76 GHz
2290 – 2500 MHz	14.4 – 15.4 GHz	31.5 – 43.5 GHz	81 – 86 GHz
3400 – 5000 MHz	15.7 – 17.3 GHz	50.4 – 51.4 GHz	
5650 – 8750 MHz	17.7 – 23.6 GHz	57 – 58.2 GHz	

SOM 8:

Frequency bands indicated with (SOM 8) in the allocation table are designated for use of maritime radiocommunications and radionavigation. These frequencies are:

283.5 – 526.5 kHz	16.36 – 17.41 MHz	2900 – 3100 MHz
1.6 – 5.25 MHz	22 – 27.5 MHz	5470 – 5650 MHz
6.2 – 13.2 MHz	154 – 174 MHz	8750 – 9500 MHz

SOM 9:

Frequencies bands indicated with (SOM 9) in the allocation table are designated for use of Aeronautical radiocommunications and radionavigation. The frequency ranges for Aeronautical radiocommunications and radionavigation are:

- 325 – 405 kHz
- 3.4 – 3.5 MHz
- 17.9 – 17.97 MHz
- 74.8 – 75.2 MHz
- 108 – 137 MHz
- 328.6 – 335.4 MHz
- 960 – 1215 MHz
- 2700 – 2900 MHz
- 9000 – 9200 MHz
- 9300 – 9500 MHz

SOM 10:

Frequencies bands indicated with (SOM 10) in the allocation table are designated for use of International Mobile Telecommunications (IMT). The frequency ranges for International Mobile Telecommunications (IMT) are:

450 – 470 MHz	1427 – 1518 MHz	2500 – 2690 MHz	47.2 – 48.2 GHz
694 – 790 MHz	1710 – 2025 MHz	3300 – 3600 MHz	66 – 71 GHz
790 – 862 MHz	2110 – 2200 MHz	24.25 – 27.5 GHz	
862 – 960 MHz	2300 – 2400 MHz	37 – 43.5 GHz	

SOM 11:

Frequencies bands indicated with (SOM 11) in the allocation table are designated for use of amateur services. The frequency ranges for amateur services are:

1.83 – 1.85 MHz	10.1 – 10.15 MHz	21 – 21.45 MHz
3.5 – 3.8 MHz	14 – 14.35 MHz	24.89 – 24.99 MHz
7 – 7.1 MHz	18.068 – 18.168 MHz	28 – 29.7 MHz

SOM 12:

Frequencies bands indicated with (SOM 12) in the allocation table are designated for use of Satellite Earth Stations. These frequency ranges are:

Amateur satellite

144 – 146 MHz	432 – 438 MHz
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Mobile satellite

1518 – 1559 MHz	1610 – 1660 MHz
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Earth Exploration satellite

432 – 438 MHz	2200 – 2290 MHz
2025 – 2110 MHz	8025 – 8400 MHz

Fixed satellite

3400 – 4200 MHz	7900 – 8400 MHz	17.3 – 21.2 GHz	47.2 – 50.2 GHz
4500 – 4800 MHz	10.7 – 13.25 GHz	24.65 – 25.25 GHz	50.4 – 52.4 GHz
5725 – 7025 MHz	13.4 – 13.65 GHz	27.5 – 31 GHz	
7250 – 7750 GHz	13.75 – 14.8 GHz	37.5 – 43.5 GHz	

Broadcasting satellite

11.7 – 12.5 GHz	21.4 – 22 GHz
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SOM 13:

Frequencies bands indicated with (SOM 13) in the table are designated for use of radio astronomy. These frequencies are:

48.94 – 49.04 GHz

Also allocated to the Radio Astronomy Service on a primary basis. (Refer to ITU Radio Regulations Article 5.555)

51.4 – 54.25 GHz 58.2 – 59 GHz 64 – 65 GHz

Radio Astronomy observations may be carried out under national arrangements. (Refer to ITU Radio Regulations Article 5.556)

105 – 109.5 GHz 111.8 – 114.25 GHz 155.5 – 158.5 GHz 217 – 226 GHz

The use of this allocation is limited to space-based Radio Astronomy only (Refer to ITU Radio Regulations Article 5.562B)

275 – 1 000 GHz

Band portions as given in ITU Radio Regulations Article 5.565 are identified for various active and passive services, which need protection.

SOM 14:

Frequencies bands indicated with (SOM 14) in the allocation table have exclusive usage. These bands are:

960 – 1 215 MHz

Used 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. (Refer to ITU Radio Regulation Article 5.328)

1 610 – 1 626.5 MHz

This band 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. (Refer to ITU Radio Regulations Article 5.366)

SOM 15:

Frequencies bands indicated with (SOM 15) in the allocation table are prohibited frequency ranges for transmitting. These bands are:

To protect the passive services, all emissions are prohibited in the following bands:

- 1 400 – 1 427 MHz
- 2 690 – 2 700 MHz except those provided for by ITU Radio Regulation Article 5.422
- 10.68 – 10.7 GHz except those provided for by ITU Radio Regulation Article 5.483
- 15.35 – 15.4 GHz except those provided for by ITU Radio Regulation Article 5.511
- 23.6 – 24 GHz
- 31.3 – 31.5 GHz
- 48.94 – 49.04 GHz from airborne stations
- 50.2 – 50.4 GHz
- 52.6 – 54.25 GHz
- 86 – 92 GHz 100 – 102 GHz
- 109.5 – 111.8 GHz
- 114.25 – 116 GHz
- 148.5 – 151.5 GHz
- 164 – 167 GHz
- 182 – 185 GHz
- 190 – 191.8 GHz
- 200 – 209 GHz
- 226 – 231.5 GHz
- 250 – 252 GHz

(Refer to ITU Radio Regulation Article 5.340)

Aircraft transmissions are prohibited in the following bands:

- 1 664.4 – 1 668.4 MHz for air to ground transmissions (ITU Radio Regulation Article 5.379A)
- 8 025 – 8 400 MHz (ITU Radio Regulation Article 5.463)

SOM 16:

Frequencies bands indicated with (SOM 16) in the allocation table are to protect Radio Astronomy and due attention shall be made while assigning frequencies in the following bands:

13 360 – 13 410 kHz	1 718.8 – 1 722.2 MHz	22.81 – 22.86 GHz	128.33 – 128.59 GHz
25 550 – 25 670 kHz	2 655 – 2 690 MHz	23.07 – 23.12 GHz	129.23 – 129.49 GHz
37.5 – 38.25 MHz	3 260 – 3 267 MHz	31.2 – 31.3 GHz	130 – 134 GHz
73 – 74.6 MHz in	3 332 – 3 339 MHz	31.5 – 31.8 GHz in	136 – 148.5 GHz

Regions 1 and 3	3 345.8 – 3 352.5 MHz	Regions 1 and 3	151.5 – 158.5 GHz
150.05 – 153 MHz in Region 1	4 825 – 4 835 MHz	36.43 – 36.5 GHz	168.59 – 168.93 GHz
322 – 328.6 MHz	4 950 – 4 990 MHz	42.5 – 43.5 GHz	171.11 – 171.45 GHz
406.1 – 410 MHz	4 990 – 5 000 MHz	48.94 – 49.04 GHz	172.31 – 172.65 GHz
608 – 614 MHz in Regions 1	6 650 – 6 675.2 MHz	76 – 86 GHz	173.52 – 173.85 GHz
1 330 – 1 400 MHz	10.6 – 10.68 GHz	92 – 94 GHz	195.75 – 196.15 GHz
1 610.6 – 1 613.8 MHz	14.47 – 14.5 GHz	94.1 – 100 GHz	209 – 226 GHz
1 660 – 1 670 MHz	22.01 – 22.21 GHz	102 – 109.5 GHz	241 – 250 GHz
	22.21 – 22.5 GHz	111.8 – 114.25 GHz	252 – 275 GHz

(Refer to ITU Radio Regulations Articles 5.149, 5.458A)

The following frequency band is used for passive measurements, which need protection, due attention shall be made while assigning frequencies in this band:

6 650 – 6 675.2 MHz

This band is used by Radio Astronomy for spectral line observations and needs protection from space stations of Fixed Satellite Service in 6 700 – 7 075 MHz

(Refer to ITU Radio Regulations Article 5.458A)

ITU Radio Regulations Footnotes applicable to Somalia:

- 5.53** Administrations authorizing 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. (WRC 12)
- 5.54** 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. (WRC 12)
- 5.54A** Use of the 8.3-11.3 kHz frequency band by stations in the meteorological aids service is limited to passive use only. In the band 9-11.3 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. (WRC 12)
- 5.56** The stations of services to which the frequency bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the frequency bands 72-84 kHz and 86-90 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, Kyrgyzstan, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-23)
- 5.57** The use of the bands 14-19.95 kHz, 20.05-70 kHz and 70-90 kHz (72-84 kHz and 86 90 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 authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
- 5.60** In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 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.
- 5.62** Administrations which operate stations in the radionavigation service in the band 90-110 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.
- 5.64** Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized 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

authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.

- 5.67A** Stations in the amateur service using frequencies in the band 135.7-137.8 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. 5.67. (WRC-07)
- 5.69** Additional allocation: in **Somalia**, the band 200-255 kHz is also allocated to the aeronautical radionavigation service on a primary basis.
- 5.73** The band 285-325 kHz (283.5-325 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)
- 5.74** Additional Allocation: in Region 1, the frequency band 285.3-285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
- 5.76** The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405-415 kHz is allocated shall not cause harmful interference to radio direction-finding in the band 406.5-413.5 kHz.
- 5.79** In the maritime mobile service, the frequency bands 415-495 kHz and 505-526.5 kHz are limited to radiotelegraphy and may also be used for the NAVDAT system in accordance with the most recent version of Recommendation ITU-R M.2010, subject to agreement between interested and affected administrations. NAVDAT transmitting stations are limited to coast stations. (WRC-19)
- 5.79A** 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 Organization (IMO) (see Resolution 339 (Rev.WRC-07)). (WRC 07)
- 5.80A** The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the amateur service using frequencies in the band 472-479 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 in the amateur service shall not cause harmful interference to, or claim protection from, stations of the aeronautical radionavigation service. (WRC 12)

- 5.80B** The use of the frequency band 472-479 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 authorizing such use. (WRC 12)
- 5.82** 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 frequency band 415-495 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 472-479 kHz for the amateur service, administrations shall ensure that no harmful interference is caused to the frequency 490 kHz. (WRC 12)
- 5.82C** The frequency band 495-505 kHz is used for the international NAVDAT system as described in the most recent version of Recommendation ITU-R M.2010. NAVDAT transmitting stations are limited to coast stations. (WRC-19)
- 5.A111** When establishing coast stations in the NAVDAT system on the frequencies 500 kHz and 4 226 kHz, the conditions for the use of the frequencies 500 kHz and 4 226 kHz are prescribed in Articles 31 and 52. Administrations are strongly recommended to coordinate the NAVDAT systems operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution COM4/1 (WRC-23)). (WRC-23)
- 5.84** The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52. (WRC 07)
- 5.92** Some countries of Region 1 use radiodetermination systems in the bands 1 606.5-1 625 kHz, 1 635-1 800 kHz, 1 850-2 160 kHz, 2 194-2 300 kHz, 2 502-2 850 kHz and 3 500-3 800 kHz, subject to agreement obtained under No. 9.21. The radiated mean power of these stations shall not exceed 50 W.
- 5.98** Alternative allocation: in Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, the Syrian Arab Republic, Türkiye, Kyrgyzstan, Somalia, Tajikistan, Tunisia and Turkmenistan, the frequency band 1 810-1 830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)

- 5.100** In Region 1, the authorization to use the band 1 810-1 830 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. 5.98 and 5.99 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. 5.98 and 5.99.
- 5.103** In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 850-2 045 kHz, 2 194-2 498 kHz, 2 502-2 625 kHz and 2 650-2 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
- 5.104** In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
- 5.107** Additional allocation: in Saudi Arabia, Eritrea, Eswatini, Ethiopia, Iraq, Libya and **Somalia**, the frequency band 2 160-2 170 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-19)
- 5.108** The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles 31 and 52. (WRC 07)
- 5.109** 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.
- 5.110** 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 used for the automatic connection system (ACS), as described in the most recent version of Recommendation ITU-R M.541. (WRC-23)
- 5.111** 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 radiocommunication 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)
- 5.113** For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. 5.16 to 5.20, 5.21 and 23.3 to 23.10.

- 5.115** 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)
- 5.116** Administrations are urged to authorize the use of the band 3 155-3 195 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.
- 5.127** The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. 52.220 and Appendix 17).
- 5.128** Frequencies in the frequency bands 4 063-4 123 kHz and 4 130-4 438 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, 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 frequency bands 4 063-4 123 kHz, 4 130-4 133 kHz and 4 408-4 438 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-19)
- 5.130** 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)
- 5.131** 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)
- 5.132** 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 Appendices 15 and 17). (WRC-23)
- 5.B111** The frequencies 6 337.5 kHz, 8 443 kHz, 12 663.5 kHz, 16 909.5 kHz and 22 450.5 kHz are the regional frequencies for the transmission of MSI by means of the NAVDAT system (see Appendices 15 and 17). (WRC-23)
- 5.132A** 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). (WRC 12)

- 5.133B** Stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 15 W (e.i.r.p.). However, in Region 2 in Mexico, stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 20 W (e.i.r.p.). In the following Region 2 countries: Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Dominica, El Salvador, Ecuador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, Saint Kitts and Nevis, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, Venezuela, as well as the overseas countries and territories within the Kingdom of the Netherlands in Region 2, stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 25 W (e.i.r.p.). (WRC-19)
- 5.134** The use of the frequency bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900 19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these frequency bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution 517 (Rev.WRC-19). (WRC-19)
- 5.136** Additional allocation: frequencies in the band 5 900-5 950 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 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)
- 5.137** On condition that harmful interference is not caused to the maritime mobile service, the bands 6 200 6 213.5 kHz and 6 220.5-6 525 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.
- 5.138** The following bands:
- | | |
|---|---|
| 6 765-6 795 kHz | (centre frequency 6 780 kHz), |
| 433.05-434.79 MHz | (centre frequency 433.92 MHz) in Region 1 |
| except in the countries mentioned in No. 5.280, | |
| 61-61.5 GHz | (centre frequency 61.25 GHz), |
| 122-123 GHz | (centre frequency 122.5 GHz), and |
| 244-246 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 authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU R Recommendations.
- 5.140** Additional allocation: in Angola, Iraq, **Somalia** and Togo, the frequency band 7 000-7 050 kHz is also allocated to the fixed service on a primary basis. (WRC-15)
- 5.143** Additional allocation: frequencies in the band 7 300-7 350 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)
- 5.143B** In Region 1, frequencies in the band 7 350-7 450 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 on condition that harmful interference is not caused to the broadcasting service. The total radiated power of each station shall not exceed 24 dBW. (WRC-12)
- 5.145** 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)
- 5.145A** 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). (WRC 12)
- 5.146** Additional allocation: frequencies in the bands 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 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)
- 5.147** On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and 11 975-12 050 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.
- 5.149** In making assignments to stations of other services to which the bands: 13 360-13 410 kHz, 25 550-25 670 kHz, 37.5-38.25 MHz, 73-74.6 MHz in Regions 1 and 3, 150.05-153 MHz in Region 1, 322-328.6 MHz, 406.1-410 MHz, 608-614 MHz in Regions 1 and

3, 1 330-1 400 MHz, 1 610.6-1 613.8 MHz, 1 660-1 670 MHz, 1 718.8-1 722.2 MHz, 2 655-2 690 MHz, 3 260-3 267 MHz, 3 332-3 339 MHz, 3 345.8-3 352.5 MHz, 4 825-4 835 MHz, 4 950-4 990 MHz, 4 990-5 000 MHz, 6 650-6 675.2 MHz, 10.6-10.68 GHz, 14.47-14.5 GHz, 22.01-22.21 GHz, 22.21-22.5 GHz, 22.81-22.86 GHz, 23.07-23.12 GHz, 31.2-31.3 GHz, 31.5-31.8 GHz in Regions 1 and 3, 36.43-36.5 GHz, 42.5-43.5 GHz, 48.94-49.04 GHz, 76-86 GHz, 92-94 GHz, 94.1-100 GHz, 102-109.5 GHz, 111.8-114.25 GHz, 128.33-128.59 GHz, 129.23-129.49 GHz, 130-134 GHz, 136-148.5 GHz, 151.5-158.5 GHz, 168.59-168.93 GHz, 171.11-171.45 GHz, 172.31-172.65 GHz, 173.52-173.85 GHz, 195.75-196.15 GHz, 209-226 GHz, 241-250 GHz, 252-275 GHz 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)

5.150 The following bands:
 13 553-13 567 kHz (centre frequency 13 560 kHz),
 26 957-27 283 kHz (centre frequency 27 120 kHz),
 40.66-40.70 MHz (centre frequency 40.68 MHz),
 902-928 MHz in Region 2 (centre frequency 915 MHz),
 2 400-2 500 MHz (centre frequency 2 450 MHz),
 5 725-5 875 MHz (centre frequency 5 800 MHz), and
 24-24.25 GHz (centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication 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.

5.151 Additional allocation: frequencies in the bands 13 570-13 600 kHz and 13 800-13 870 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)

5.155B The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.

5.156A The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.

5.157 The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.

- 5.A112** The use of the frequency band 40-50 MHz by the Earth exploration-satellite service (active) shall be in accordance with the geographical area restrictions and the operational and technical conditions defined in Resolution COM5/6 (WRC-23). The provisions of this footnote in no way diminish the obligation of the Earth exploration-satellite service (active) to operate as a secondary service in accordance with Nos. 5.29 and 5.30.(WRC-23)
- 5.165** Additional allocation: in Angola, Cameroon, Congo (Rep. of the), Egypt, Madagascar, Mozambique, Niger, **Somalia**, Sudan, South Sudan, Tanzania and Chad, the frequency band 47-68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
- 5.166A** Different category of service: in Austria, Cyprus, the Vatican, Croatia, Denmark, Spain, Finland, Hungary, Latvia, the Netherlands, the Czech Republic, the United Kingdom, Slovakia and Slovenia, the frequency band 50.0- 50.5 MHz is allocated to the amateur service on a primary basis. Stations in the amateur service in these countries shall not cause harmful interference to, or claim protection from, stations of the broadcasting, fixed and mobile services operating in accordance with the Radio Regulations in the frequency band 50.0-50.5 MHz in the countries not listed in this provision. For a station of these services, the protection criteria in No. 5.169B shall also apply. In Region 1, with the exception of those countries listed in No. 5.169, wind profiler radars operating in the radiolocation service under No. 5.162A are authorized to operate on the basis of equality with stations in the amateur service in the frequency band 50.0-50.5 MHz. (WRC-19)
- 5.166B** In Region 1, stations in the amateur service operating on a secondary basis shall not cause harmful interference to, or claim protection from, stations of the broadcasting service. The field strength generated by an amateur station in Region 1 in the frequency band 50-52 MHz shall not exceed a calculated value of +6 dB(μ V/m) at a height of 10 m above ground for more than 10% of time along the border of a country with operational analogue broadcasting stations in Region 1 and of neighbouring countries with broadcasting stations in Region 3 listed in Nos. 5.167 and 5.168. (WRC-19)
- 5.166C** In Region 1, stations in the amateur service in the frequency band 50-52 MHz, with the exception of those countries listed in No. 5.169, shall not cause harmful interference to, or claim protection from, wind profiler radars operating in the radiolocation service under No. 5.162A. (WRC-19)
- 5.180** 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.

- 5.A17** The use of the frequency band 117.975-137 MHz by the aeronautical mobile-satellite (R) service is subject to coordination under No. 9.11A. No. 9.16 does not apply. Such use shall be limited to non-geostationary-satellite systems operated in accordance with international aeronautical standards. Resolution COM4/2 (WRC-23) applies. (WRC-23)
- 5.B17** The use of the frequency band 117.975-137 MHz by the aeronautical mobile (R) service shall have priority over use by the aeronautical mobile-satellite (R) service. (WRC-23)
- 5.194** Additional allocation: in Kyrgyzstan, **Somalia** and Turkmenistan, the frequency band 104-108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis. (WRC-19)
- 5.197A** Additional allocation: the frequency band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC-23). The use of the frequency band 108-112 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 recognized international aeronautical standards. (WRC-23)
- 5.200** In the frequency band 117.975-137 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 and the aeronautical mobile-satellite service.(WRC-23)
- 5.201** Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Egypt, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq (Republic of), Japan, Kazakhstan, Mali, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Qatar, Kyrgyzstan, Romania, Senegal, Somalia, Tajikistan and Turkmenistan, the frequency band 132- 136 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-23)
- 5.203C** The use of the space operation service (space-to-Earth) with non-geostationary satellite short-duration mission systems in the frequency band 137-138 MHz is subject to Resolution 660 (WRC-19). Resolution 32 (WRC-19) applies. These systems shall not cause harmful interference to, or claim protection from, the existing services to which the frequency band is allocated on a primary basis. (WRC-19)

5.208 The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)

5.208A In making assignments to space stations in the mobile-satellite service in the frequency bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz and in the maritime mobile-satellite service (space-to-Earth) in the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the frequency bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from unwanted emissions as shown in the most recent version of Recommendation ITU-R RA.769. (WRC-19)

5.208B	In	the	frequency	bands:
	137-138			MHz,
	157.1875-157.3375			MHz,
	161.7875-161.9375			MHz,
	387-390			MHz,
	400.15-401			MHz,
	1	452-1	492	MHz,
	1	525-1	610	MHz,
	1	613.8-1	626.5	MHz,
	2	655-2	690	MHz,
	21.4-22			GHz,
	Resolution	739	(Rev.WRC-19)	applies. (WRC-19)

5.209 The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 454 456 MHz and 459-460 MHz by the mobile-satellite service is limited to non geostationary-satellite systems. (WRC 97)

5.209A The use of the frequency band 137.175-137.825 MHz by non-geostationary-satellite systems in the space operation service identified as short-duration mission in accordance with Appendix 4 is not subject to No. 9.11A. (WRC-19)

5.211 Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Guinea, Ireland, Israel, Kenya, Kuwait, Lebanon, Liechtenstein, Luxembourg, North Macedonia, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, Slovakia, the United Kingdom, Serbia, Slovenia, **Somalia**, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the frequency band 138-144 MHz

is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-19)

5.214 Additional allocation: in Eritrea, Ethiopia, Kenya, North Macedonia, Montenegro, Serbia, **Somalia**, Sudan, South Sudan and Tanzania, the frequency band 138-144 MHz is also allocated to the fixed service on a primary basis. (WRC-19)

5.218 Additional allocation: the band 148-149.9 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.

5.218A The frequency band 148-149.9 MHz in the space operation service (Earth-to-space) may be used by non geostationary-satellite systems with short-duration missions. Non-geostationary-satellite systems in the space operation service used for a short-duration mission in accordance with Resolution 32 (WRC-19) of the Radio Regulations are not subject to agreement under No. 9.21. At the stage of coordination, the provisions of Nos. 9.17 and 9.18 also apply. In the frequency band 148-149.9 MHz, non-geostationary-satellite systems with short-duration missions shall not cause unacceptable interference to, or claim protection from, existing primary services within this frequency band, or impose additional constraints on the space operation and mobile-satellite services. In addition, earth stations in non-geostationary-satellite systems in the space operation service with short-duration missions in the frequency band 148-149.9 MHz shall ensure that the power flux-density does not exceed $-149 \text{ dB(W)/(m}^2 \pm 4 \text{ kHz)}$ for more than 1% of time at the border of the territory of the following countries: Armenia, Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, Russian Federation, India, Iran (Islamic Republic of), Japan, Kazakhstan, Malaysia, Uzbekistan, Kyrgyzstan, Thailand and Viet Nam. In case this power flux-density limit is exceeded, agreement under No. 9.21 is required to be obtained from countries mentioned in this footnote. (WRC-19)

5.219 The use of the frequency band 148-149.9 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the frequency band 148-149.9 MHz. The use of the frequency band 148-149.9 MHz by nongeostationary-satellite systems in the space operation service identified as short-duration mission is not subject to No. 9.11A. (WRC-19)

5.220 The use of the frequency bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-15)

- 5.221** Stations of the mobile-satellite service in the frequency band 148-149.9 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 d'Ivoire, Croatia, Cuba, Denmark, Djibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Eswatini, Ethiopia, the Russian Federation, Finland, France, Gabon, Georgia, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, 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, Türkiye, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago, Tunisia, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-23)
- 5.225A** 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 154-156 MHz is also allocated to the radiolocation service on a primary basis. The usage of the frequency band 154-156 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 154-156 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(μ 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 dBW/4 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 156.7625-156.8375 MHz, 156.5125 156.5375 MHz, 161.9625-161.9875 MHz, 162.0125-162.0375 MHz, out-of-band 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. (WRC 12)
- 5.226** 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 156.4875-156.5625 MHz are contained in Articles

- 31 and 52, and in 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 156.7625-156.8375 MHz are contained in Article 31 and Appendix 18. In the bands 156-156.4875 MHz, 156.5625-156.7625 MHz, 156.8375-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 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 radiocommunication 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)
- 5.227** Additional allocation: the bands 156.4875-156.5125 MHz and 156.5375-156.5625 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 radiocommunication service. (WRC 07)
- 5.228** The use of the frequency bands 156.7625-156.7875 MHz and 156.8125-156.8375 MHz by the mobile-satellite 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. (WRC 12)
- 5.228A** The frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz may be used by aircraft stations for the purpose of search and rescue operations and other safety-related communications. (WRC 12)
- 5.228AA** The use of the frequency bands 161.9375-161.9625 MHz and 161.9875-162.0125 MHz by the maritime mobile-satellite (Earth-to-space) service is limited to the systems which operate in accordance with Appendix 18. (WRC 15)
- 5.228AB** The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (Earth-to-space) is limited to non-geostationary-satellite systems operating in accordance with Appendix 18. (WRC-19)
- 5.228AC** The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (space-to-Earth) is limited to non-geostationary-satellite systems operating in accordance with Appendix 18. Such use is subject to agreement obtained under No. 9.21 with respect to the terrestrial services in Azerbaijan, Belarus, China, Korea (Rep.

of), Cuba, the Russian Federation, the Syrian Arab Republic, the Dem. People's Rep. of Korea, South Africa and Viet Nam. (WRC-19)

- 5.228B** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the fixed and land mobile services shall not cause harmful interference to, or claim protection from, the maritime mobile service. (WRC 12)
- 5.228C** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the maritime mobile service and the mobile-satellite (Earth-to-space) service is limited to the automatic identification system (AIS), including AIS search and rescue transmitters (AIS-SART) and satellite emergency position indicating radio beacons with AIS (EPIRB-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, AIS-SART and EPIRB-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. (WRC-23)
- 5.228D** The frequency bands 161.9625-161.9875 MHz (AIS 1) and 162.0125-162.0375 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. (WRC 12)
- 5.228E** The use of the automatic identification system in the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 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. (WRC 12)
- 5.228F** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of automatic identification system emissions from stations operating in the maritime mobile service. (WRC 12)
- 5.237** Additional allocation: in Congo (Rep. of the), Egypt, Eritrea, Ethiopia, Gambia, Guinea, Libya, Mali, Sierra Leone, **Somalia** and Chad, the band 174-223 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC 12)
- 5.243** Additional allocation: in **Somalia**, the band 216-225 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.
- 5.254** The bands 235-322 MHz and 335.4-399.9 MHz may be used by the mobile-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. 5.256A. (WRC-03)

- 5.255** The bands 312-315 MHz (Earth-to-space) and 387-390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. 9.11A.
- 5.256** The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC 07)
- 5.257** The band 267-272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. 9.21.
- 5.258** The use of the band 328.6-335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).
- 5.260A** In the frequency band 399.9-400.05 MHz, the maximum e.i.r.p. of any emission of earth stations in the mobile-satellite service shall not exceed 5 dBW in any 4 kHz band and the maximum e.i.r.p. of each earth station in the mobile-satellite service shall not exceed 5 dBW in the whole 399.9-400.05 MHz frequency band. Until 22 November 2022, this limit shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2022, these limits shall apply to all systems within the mobile-satellite service operating in this frequency band. In the frequency band 399.99-400.02 MHz, the e.i.r.p. limits as specified above shall apply after 22 November 2022 to all systems within the mobile-satellite service. Administrations are requested that their mobile satellite service satellite links in the 399.99-400.02 MHz frequency band comply with the e.i.r.p. limits as specified above, after 22 November 2019. (WRC-19)
- 5.260B** In the frequency band 400.02-400.05 MHz, the provisions of No. 5.260A are not applicable for telecommand uplinks within the mobile-satellite service. (WRC-19)
- 5.261** Emissions shall be confined in a band of ± 25 kHz about the standard frequency 400.1 MHz.
- 5.262** 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 400.05-401 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)

- 5.263** The band 400.15-401 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.
- 5.264** The use of the band 400.15-401 MHz by the mobile-satellite 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.
- 5.264A** In the frequency band 401-403 MHz, the maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW in any 4 kHz band for geostationary-satellite systems and non-geostationary-satellite systems with an orbit of apogee equal or greater than 35 786 km. The maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW in any 4 kHz band for non-geostationary-satellite systems with an orbit of apogee lower than 35 786 km. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW for geostationary-satellite systems and non-geostationary-satellite systems with an orbit of apogee equal or greater than 35 786 km in the whole 401-403 MHz frequency band. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW for non-geostationary-satellite systems with an orbit of apogee lower than 35 786 km in the whole 401-403 MHz frequency band. Until 22 November 2029, these limits shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2029, these limits shall apply to all systems within the meteorological-satellite service and the Earth exploration-satellite service operating in this frequency band. (WRC-19)
- 5.264B** Non-geostationary-satellite systems in the meteorological-satellite service and the Earth exploration-satellite service for which complete notification information has been received by the Radiocommunication Bureau no later than 28 April 2007 are exempt from provisions of No. 5.264A and may continue to operate in the frequency band 401.898-402.522 MHz on a primary basis without exceeding a maximum e.i.r.p. level of 12 dBW. (WRC-23)
- 5.265** In the frequency band 403-410 MHz, Resolution 205 (Rev.WRC-15) applies. (WRC-15)
- 5.266** The use of the band 406-406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article 31). (WRC-07)
- 5.267** Any emission capable of causing harmful interference to the authorized uses of the band 406-406.1 MHz is prohibited.

- 5.268** Use of the frequency band 410-420 MHz by the space research service is limited to space-to-space communication links with an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from transmitting stations of the space research service (space-to-space) in the frequency band 410-420 MHz shall not exceed $-153 \text{ dB(W/m}^2\text{)}$ for $0^\circ \leq d \leq 5^\circ$, $-153 + 0.077 (d - 5) \text{ dB(W/m}^2\text{)}$ for $5^\circ \leq d \leq 70^\circ$ and $-148 \text{ dB(W/m}^2\text{)}$ for $70^\circ \leq d \leq 90^\circ$, where d is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. In this frequency band, stations of the space research service (space-to-space) shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. No. 4.10 does not apply. (WRC-15)
- 5.276** 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's Rep. of Korea, Singapore, **Somalia**, Sudan, Switzerland, Thailand, Togo, Turkey and Yemen, the frequency band 430-440 MHz is also allocated to the fixed service on a primary basis and the frequency bands 430-435 MHz and 438-440 MHz are also allocated, except in Ecuador, to the mobile, except aeronautical mobile, service on a primary basis. (WRC-15)
- 5.279A** The use of the frequency band 432-438 MHz by sensors in the Earth exploration-satellite service (active) shall be in accordance with Recommendation ITU-R RS.1260-1. Additionally, the Earth exploration-satellite service (active) in the frequency band 432-438 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 exploration-satellite service (active) to operate as a secondary service in accordance with Nos. 5.29 and 5.30. (WRC-15)
- 5.282** In the bands 435-438 MHz, 1 260-1 270 MHz, 2 400-2 450 MHz, 3 400-3 410 MHz (in Regions 2 and 3 only) and 5 650-5 670 MHz, the amateur-satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see No. 5.43). Administrations authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. 25.11. The use of the bands 1 260-1 270 MHz and 5 650-5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
- 5.286** The band 449.75-450.25 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.
- 5.286A** The use of the bands 454-456 MHz and 459-460 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)

- 5.286AA** The frequency band 450-470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). See Resolution 224 (Rev.WRC-15). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-15)
- 5.287** Use of the frequency bands 457.5125-457.5875 MHz and 467.5125-467.5875 MHz by the maritime mobile service is limited to on-board communication stations. The characteristics of the equipment and the channelling arrangement shall be in accordance with Recommendation ITU-R M.1174-3. The use of these frequency bands in territorial waters is subject to the national regulations of the administration concerned. (WRC-15)
- 5.289** Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460-470 MHz and 1 690-1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- 5.304** Additional allocation: in the African Broadcasting Area (see Nos. 5.10 to 5.13), the band 606-614 MHz is also allocated to the radio astronomy service on a primary basis.
- 5.14A** The frequency band 698-960 MHz, or portions thereof, in Region 2, and the frequency band 694-960 MHz, or portions thereof, in Region 1, are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations.
- Resolution COM4/3 (WRC-23) shall apply. HIBS shall not claim protection from existing primary services. No. 5.43A does not apply, see resolves 2 of Resolution COM4/3 (WRC-23). Such use of HIBS in the frequency bands 694-728 MHz, 830-835 MHz and 805.3-806.9 MHz is limited to reception by HIBS. (WRC-23)
- 5.15C** Additional allocation: in Gambia, Mauritania, Namibia, Nigeria, Senegal, Somalia, Tanzania and Chad, the frequency band 614-694 MHz is allocated to the mobile service on a secondary basis. For the protection of the broadcasting service, stations in the mobile service shall not create a field strength for more than 1% of the time at the highest of the clutter height or 10 m above ground level at the border of the territory of any other administration that exceeds the field strength value as calculated using § 4.1.3.2 of Annex 2 to the GE06 Agreement with regard to allowance for multiple interference, Table AP1.10 and the methodology given in the GE06 Agreement. This allocation shall in no way adversely affect the broadcast development or undermine new entries of the broadcast service to the GE06 Plan. Additional measures shall be used by administrations implementing stations in the mobile services to protect stations in the broadcasting stations of neighbouring

administrations such as a distance limitation from the border of a neighbouring country.
(WRC-23)

- 5.306** Additional allocation: in Region 1, except in the African Broadcasting Area (see Nos. 5.10 to 5.13), and in Region 3, the band 608-614 MHz is also allocated to the radio astronomy service on a secondary basis.
- 5.312A** In Region 1, the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution 760 (Rev.WRC-23). See also Resolution 224 (Rev.WRC-19/23). (WRC-23)
- 5.316B** In Region 1, the allocation to the mobile, except aeronautical mobile, service in the frequency band 790-862 MHz is subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. 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-19/23) and 749 (Rev.WRC-23) shall apply, as appropriate. (WRC-23)
- 5.317A** The parts of the frequency band 698-960 MHz in Region 2 and the frequency bands 694-790 MHz in Region 1 and 790-960 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-23), 760 (Rev.WRC-23) and 749 (Rev.WRC-23), where applicable. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-23)
- 5.322** In Region 1, in the frequency band 862-960 MHz, stations of the broadcasting service shall be operated only in the African Broadcasting Area (see Nos. 5.10 to 5.13) excluding Algeria, Burundi, Djibouti, Egypt, Spain, Lesotho, Libya, Morocco, Malawi, Namibia, Nigeria, South Africa, Tanzania, Zimbabwe and Zambia, subject to agreement obtained under No. 9.21. (WRC-23)
- 5.327A** The use of the frequency band 960-1 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 417 (Rev.WRC-15). (WRC-15)
- 5.328** The use of the band 960-1 215 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)

- 5.328A** Stations in the radionavigation-satellite service in the band 1 164-1 215 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 960-1 215 MHz. No. 5.43A does not apply. The provisions of No. 21.18 shall apply. (WRC-07)
- 5.328AA** The frequency band 1 087.7-1 092.3 MHz is also allocated to the aeronautical mobile-satellite (R) service (Earth-to-space) on a primary basis, limited to the space station reception of Automatic Dependent Surveillance-Broadcast (ADS-B) emissions from aircraft transmitters that operate in accordance with recognized international aeronautical standards. Stations operating in the aeronautical mobile-satellite (R) service shall not claim protection from stations operating in the aeronautical radionavigation service. Resolution 425 (WRC-15) shall apply. (WRC-15)
- 5.328B** The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz by systems and networks in the radionavigation-satellite 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 radionavigation-satellite service (space-to-space) networks and systems, Resolution 610 (WRC-03) shall only apply to transmitting space stations. In accordance with No. 5.329A, for systems and networks in the radionavigation-satellite service (space-to-space) in the bands 1 215-1 300 MHz and 1 559-1 610 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 radionavigation-satellite service (space-to-space). (WRC-07)
- 5.329** Use of the radionavigation-satellite service in the band 1 215-1 300 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. 5.331. Furthermore, the use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. No. 5.43 shall not apply in respect of the radiolocation service. Resolution 608 (WRC-03) shall apply. (WRC-03)
- 5.329A** Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigation-satellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
- 5.330** 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, Palestine*, the Philippines, Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and

Yemen, the frequency band 1 215-1 300 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-23)

- 5.331** 5.331 Additional allocation: in Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Djibouti, 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, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, Palestine*, the Kingdom of the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Dem. People’s Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, **Somalia**, Sudan, South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Venezuela and Viet Nam, the frequency band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the frequency band 1 240-1 300 MHz is also allocated to the radionavigation
- 5.332** In the band 1 215-1 260 MHz, active spaceborne sensors in the Earth exploration-satellite 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 radionavigation-satellite service and other services allocated on a primary basis. (WRC-2000)
- 5.335A** In the band 1 260-1 300 MHz, active spaceborne sensors in the Earth exploration-satellite 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)
- 5.A91B** Administrations authorizing operation of the amateur and amateur-satellite services in the frequency band 1 240-1 300 MHz, or portions thereof, shall ensure that the amateur and amateur-satellite services do not cause harmful interference to radionavigation-satellite service (space-to-Earth) receivers in accordance with No. 5.29 (see the most recent version of Recommendation ITU-R M.2164). The authorizing administration, upon receipt of a report of harmful interference caused by a station of the amateur or amateur-satellite services, shall take all necessary steps to rapidly eliminate such interference. (WRC-23)
- 5.337** The use of the bands 1 300-1 350 MHz, 2 700-2 900 MHz and 9 000-9 200 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.
- 5.337A** The use of the band 1 300-1 350 MHz by earth stations in the radionavigation-satellite 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)

5.338A In the frequency bands 1 350-1 400 MHz, 1 427-1 452 MHz, 22.55-23.55 GHz, 30-31.3 GHz, 49.7-50.2 GHz, 50.4-50.9 GHz, 51.4-52.6 GHz, 81-86 GHz and 92-94 GHz, Resolution 750 (Rev.WRC-15) applies. (WRC-15)

5.339 The bands 1 370-1 400 MHz, 2 640-2 655 MHz, 4 950-4 990 MHz and 15.20-15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.

5.340 All emissions are prohibited in the following bands:

- 1 400-1 427 MHz,
- 2 690-2 700 MHz, except those provided for by No. 5.422,
- 10.68-10.7 GHz, except those provided for by No. 5.483,
- 15.35-15.4 GHz, except those provided for by No. 5.511,
- 23.6-24 GHz,
- 31.3-31.5 GHz,
- 31.5-31.8 GHz, in Region 2,
- 48.94-49.04 GHz, from airborne stations
- 50.2-50.4 GHz,
- 52.6-54.25 GHz,
- 86-92 GHz,
- 100-102 GHz,
- 109.5-111.8 GHz,
- 114.25-116 GHz,
- 148.5-151.5 GHz,
- 164-167 GHz,
- 182-185 GHz,
- 190-191.8 GHz,
- 200-209 GHz,
- 226-231.5 GHz,
- 250-252 GHz. (WRC 03)

5.341 In the bands 1 400-1 727 MHz, 101-120 GHz and 197-220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.

5.341A In Region 1, the frequency bands 1 427-1 452 MHz and 1 492-1 518 MHz are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-15). This identification does not preclude the use of these frequency bands by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement

obtained under No. 9.21 with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. 5.342. (WRC-15)

5.345 Use of the band 1 452-1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (WARC-92).

5.346 In Algeria, Angola, Saudi Arabia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kenya, Kuwait, Lesotho, Lebanon, Liberia, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Palestine**, Qatar, Dem. Rep. of the Congo, Rwanda, Senegal, Seychelles, Somalia, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Zambia, and Zimbabwe, the frequency band 1 452-1 492 MHz is identified for use by administrations listed above wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-19/23). This identification does not preclude the use of this frequency band by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of this frequency band for the implementation of IMT is subject to agreement obtained under No. 9.21 with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. 5.342. See also

Resolution 761 (Rev.WRC-19). (WRC-23)

5.348 The use of the band 1 518-1 525 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. 5.43A does not apply. (WRC-03)

5.351 The bands 1 525-1 544 MHz, 1 545-1 559 MHz, 1 626.5-1 645.5 MHz and 1 646.5-1 660.5 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 mobile-satellite services may be authorized by an administration to communicate via space stations using these bands.

5.351A For the use of the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610- 1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 MHz and 2 670-2 690 MHz by the mobile-satellite service, see Resolutions 212 (Rev.WRC-23) and 225 (Rev.WRC-23). (WRC-23)

5.353A In applying the procedures of Section II of Article 9 to the mobile-satellite service in the frequency bands 1 530-1 544 MHz and 1 626.5-1 645.5 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 mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over

all other mobile satellite communications operating within a network. Mobile-satellite 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 mobile-satellite services. (The provisions of Resolution 222 (Rev.WRC-23) shall apply.) (WRC-23)

- 5.354** The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the mobile-satellite services is subject to coordination under No. 9.11A.
- 5.355** 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 1 540-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a secondary basis. (WRC-12)
- 5.356** The use of the band 1 544-1 545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article 31).
- 5.357** Transmissions in the band 1 545-1 555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorized when such transmissions are used to extend or supplement the satellite-to-aircraft links.
- 5.357A** In applying the procedures of Section II of Article 9 to the mobile-satellite service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. Aeronautical mobile-satellite (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 (Rev.WRC-23) shall apply.) (WRC-23)
- 5.364** The use of the band 1 610-1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination-satellite service (Earth-to-space) 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. 5.366 (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 mobile-satellite service shall not claim protection from stations

in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 5.366 and stations in the fixed service operating in accordance with the provisions of No. 5.359. Administrations responsible for the coordination of mobile-satellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. 5.366.

- 5.365** The use of the band 1 613.8-1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under No. 9.11A.
- 5.366** The band 1 610-1 626.5 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.
- 5.367** Additional allocation: The frequency band 1 610-1 626.5 MHz is also allocated to the aeronautical mobile-satellite (R) service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-12)
- 5.368** The provisions of No. 4.10 do not apply with respect to the radiodetermination-satellite and mobile-satellite services in the frequency band 1 610-1 626.5 MHz. However, No. 4.10 applies in the frequency band 1 610-1 626.5 MHz with respect to the aeronautical radionavigation-satellite service when operating in accordance with No. 5.366, the aeronautical mobile-satellite (R) service when operating in accordance with No. 5.367, and in the frequency bands 1 614.4225- 1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see resolves 5 of Resolution COM4/5 (WRC-23)) and 1 621.35-1 626.5 MHz with respect to the maritime mobile-satellite service when used for GMDSS. In applying the procedure of Section II of Article 9, the provisions of No. 4.10 do not apply for the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to- space) (see resolves 5 of Resolution COM4/5 (WRC-23)) and 2 483.59-2 499.91 MHz (space-to- Earth) for the maritime mobile-satellite service when used for the GMDSS with satellite networks or systems for which complete coordination information has been received by the Radiocommunication Bureau before 20 November 2023. Resolution COM4/5 (WRC-23) applies. (WRC-23)
- 5.1117** The maritime mobile-satellite service in the frequency bands 1 614.4225- 1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see resolves 5 of Resolution COM4/5 (WRC-23)) and 2 483.59-2 499.91 MHz (space-to-Earth) when they are used for GMDSS is limited to the geostationary-satellite networks identified in Resolution COM4/5 (WRC-23) and their associated earth stations located within a service area from 75°E to 135°E longitude and from 10°N to 55°N latitude. Resolution COM4/5 (WRC-23) applies. (WRC-23)

- 5.371** Additional allocation: in Region 1, the band 1 610-1 626.5 MHz (Earth-to-space) is also allocated to the radiodetermination-satellite service on a secondary basis, subject to agreement obtained under No. 9.21. (WRC-12)
- 5.372** Harmful interference shall not be caused to stations of the radio astronomy service using the frequency band 1 610.6-1 613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (No. 29.13 applies). The equivalent power flux-density (epfd) produced in the frequency band 1 610.6-1 613.8 MHz by all space stations of a non-geostationary-satellite system in the mobile-satellite service (space-to-Earth) operating in frequency band 1 613.8-1 626.5 MHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, using the methodology given in Recommendation ITU-R M.1583-1, and the radio astronomy antenna pattern described in Recommendation ITU-R RA.1631-0. (WRC-19)
- 5.373** Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose additional constraints on earth stations operating in the maritime mobile-satellite service or maritime earth stations of the radiodetermination-satellite service operating in accordance with the Radio Regulations in the frequency band 1 610- 1 621.35 MHz or on earth stations operating in the maritime mobile-satellite service operating in accordance with the Radio Regulations in the frequency band 1 626.5-1 660.5 MHz, unless otherwise agreed between the notifying administrations. (WRC-19)
- 5.373A** Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose constraints on the assignments of earth stations of the mobile-satellite service (Earth-to-space) and the radiodetermination satellite service (Earth-to-space) in the frequency band 1 621.35-1 626.5 MHz in networks for which complete coordination information has been received by the Radiocommunication Bureau before 28 October 2019. (WRC-19)
- 5.374** Mobile earth stations in the mobile-satellite service operating in the bands 1 631.5-1 634.5 MHz and 1 656.5-1 660 MHz shall not cause harmful interference to stations in the fixed service operating in the countries listed in No. 5.359. (WRC-97)
- 5.375** The use of the frequency band 1 645.5-1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress, urgency and safety communications (see Article 31). (WRC-23)
- 5.376** Transmissions in the band 1 646.5-1 656.5 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.
- 5.376A** Mobile earth stations operating in the band 1 660-1 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)

- 5.379A** Administrations are urged to give all practicable protection in the band 1 660.5-1 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.4-1 668.4 MHz as soon as practicable.
- 5.379B** The use of the band 1 668-1 675 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-23)
- 5.379C** In order to protect the radio astronomy service in the band 1 668-1 670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite 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)
- 5.379D** For sharing of the frequency band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution 744 (Rev.WRC-23) shall apply. (WRC-23)
- 5.379E** In the band 1 668.4-1 675 MHz, stations in the mobile-satellite 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 1 668.4-1 675 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)
- 5.380A** In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite 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 mobile-satellite service. (WRC-07)
- 5.382** 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, Lebanon, North Macedonia, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, **Somalia**, Tajikistan, Turkmenistan, Ukraine and Yemen, the allocation of the frequency band 1 690-1 700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33), and in the Dem. People's Rep. of Korea, the allocation of the frequency band 1 690-1 700 MHz to the fixed service is on a primary basis (see No. 5.33) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC-19)
- 5.384A** The frequency bands 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, or portions thereof, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-15). This identification

does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-15)

- 5.385** Additional allocation: the band 1 718.8-1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)

- 5.388** The frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications (IMT). Such use does not preclude the use of these frequency bands by other services to which they are allocated. The frequency bands should be made available for IMT in accordance with Resolution 212 (Rev.WRC-23) (see also Resolution 223 (Rev.WRC-19/23)). (WRC-23)

- 5.388A** The frequency bands 1 710-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz in Regions 1 and 3 and the frequency bands 1 710-1 980 MHz and 2 110-2 160 MHz in Region 2 are identified for the use by high altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution 221 (Rev.WRC-23) shall apply. HIBS shall not claim protection from existing primary services. No. 5.43A does not apply. Such use of HIBS in the frequency bands 1 710-1 785 MHz in Regions 1 and 2, and 1 710-1 815 MHz in Region 3 is limited to reception by HIBS, and in the frequency band 2 110-2 170 MHz is limited to transmission from HIBS. (WRC-23)

- 5.389A** The use of the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile- satellite service is subject to coordination under No. 9.11A and to the provisions of Resolution 716 (Rev.WRC-23). (WRC-23)

- 5.389B** The use of the frequency band 1 980-1 990 MHz by the mobile-satellite 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, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela. (WRC-19)

- 5.389E** The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite 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.

- 5.391** In making assignments to the mobile service in the frequency bands 2 025-2 110 MHz and 2 200-2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154-0, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-15)

- 5.392** 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 exploration-satellite services in the bands 2 025-2 110 MHz and 2 200-2 290 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.
- 5.398** In respect of the radiodetermination-satellite service in the band 2 483.5-2 500 MHz, the provisions of No. 4.10 do not apply.
- 5.399** Except for cases referred to in No. 5.401, stations of the radiodetermination-satellite service operating in the frequency band 2 483.5-2 500 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. 5.398A. (WRC-12)
- 5.402** The use of the band 2 483.5-2 500 MHz by the mobile-satellite and the radiodetermination-satellite 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 2 483.5-2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990-5 000 MHz band allocated to the radio astronomy service worldwide.
- 5.14C** The frequency band 2 500-2 690 MHz in Regions 1 and 2, and the frequency band 2 500-2 655 MHz in Region 3 are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution COM4/4 (WRC-23) shall apply. HIBS shall not claim protection from existing primary services. No. 5.43A does not apply. Such use of HIBS in the frequency bands 2 500-2 510 MHz in Regions 1 and 2, and 2 500- 2 535 MHz in Region 3 is limited to reception by HIBS. (WRC-23)
- 5.403** Subject to agreement obtained under No. 9.21, the band 2 520-2 535 MHz may also be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-satellite, service for operation limited to within national boundaries. The provisions of No. 9.11A apply. (WRC-07)
- 5.410** The band 2 500-2 690 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)

- 5.413** In the design of systems in the broadcasting-satellite 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 2 690-2 700 MHz.
- 5.414** The allocation of the frequency band 2 500-2 520 MHz to the mobile-satellite service (space-to-Earth) is subject to coordination under No. 9.11A. (WRC-07)
- 5.415** The use of the bands 2 500-2 690 MHz in Region 2 and 2 500-2 535 MHz and 2 655-2 690 MHz in Region 3 by the fixed-satellite service is limited to national and regional systems, subject to agreement obtained under No. 9.21, giving particular attention to the broadcasting-satellite service in Region 1. (WRC-07)
- 5.416** The use of the band 2 520-2 670 MHz by the broadcasting-satellite 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)
- 5.418B** Use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. 5.418, 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)
- 5.418C** Use of the band 2 630-2 655 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. 5.418 and No. 22.2 does not apply. (WRC-03)
- 5.419** When introducing systems of the mobile-satellite service in the band 2 670-2 690 MHz, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobile-satellite systems in the band shall be in accordance with No. 9.11A. (WRC-07)
- 5.420** The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile-satellite, 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)

- 5.422** 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 2 690-2 700 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)
- 5.423** In the band 2 700-2 900 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the aeronautical radionavigation service.
- 5.424A** In the band 2 900-3 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
- 5.425** In the band 2 900-3 100 MHz, the use of the shipborne interrogator-transponder (SIT) system shall be confined to the sub-band 2 930 -2 950 MHz.
- 5.426** The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service is limited to ground-based radars.
- 5.427** In the bands 2 900-3 100 MHz and 9 300-9 500 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.
- 5.429** Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Benin, Brunei Darussalam, Cambodia, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lao P.D.R., Lebanon, Libya, Malaysia, Mongolia, Myanmar, New Zealand, Oman, Uganda, Pakistan, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Thailand, Viet Nam and Yemen, the frequency band 3 300-3 400 MHz is also allocated to the fixed and mobile services on a primary basis. Mongolia, New Zealand and the countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-23)
- 5.429A** Additional allocation: in Angola, Botswana, Burkina Faso, Burundi, Cabo Verde, Central African Republic, Comoros, Djibouti, Eritrea, Eswatini, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, Lesotho, Liberia, Madagascar, Malawi, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Palestine*, the Dem. Rep. of the Congo, Rwanda, Sao Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Sudan, South Africa,

Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. Stations in the mobile service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-23)

5.429B In the following countries of Region 1: Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Comoros, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, Eritrea, Eswatini, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mauritius, Mauritania, Mongolia, Mozambique, Namibia, Niger, Nigeria, Uganda, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). The use of this frequency band shall be in accordance with Resolution 223 (Rev.WRC-23). The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-23)

5.430A The allocation of the frequency band 3 400-3 600 MHz to the mobile, except aeronautical mobile, service is subject to agreement obtained under No. 9.21. This frequency band is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The provisions of Nos. 9.17 and 9.18 shall also apply in the coordination phase. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed $-154.5 \text{ dB(W/(m}^2 \times 4 \text{ kHz))}$ 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) and with the assistance of the Bureau if so requested. In case of disagreement, 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 frequency band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-15)

- 5.A13A** The use of the frequency band 3 600-3 800 MHz by the mobile, except aeronautical mobile, service on a primary basis in Region 1 is subject to agreement obtained under No. 9.21 if the power flux-density (pfd) limit below is exceeded. The provisions of Nos. 9.17 and 9.18 shall also apply in the coordination phase. Before an administration in Region 1 brings into use a station in the mobile service in the frequency band 3 600-3 800 MHz, for the protection of stations in the fixed and fixed-satellite services, it shall ensure that the pfd produced at 3 m above ground does not exceed $-154.5 \text{ dB(W/(m}^2 \text{ } \times 4 \text{ kHz))}$ for more than 20% of the time at the border of the territory of any other administration. Stations in the mobile service operating in the frequency band 3 600- 3 800 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations. (WRC-23)
- 5.A13D** In Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, Benin, Burkina Faso, Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kazakhstan, Kenya, Kuwait, Lebanon, Liberia, Libya, Madagascar, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Uzbekistan, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Somalia, Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, the frequency band 3 600-3 800 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of the frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The conditions of No. 5.A13A shall apply. (WRC-23)
- 5.436** Use of the frequency band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics intra-communication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 424 (Rev.WRC-23). (WRC-23)
- 5.437** Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4 200-4 400 MHz on a secondary basis. (WRC-15)
- 5.438** Use of the frequency band 4 200-4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. (WRC-15)
- 5.440** The standard frequency and time signal-satellite service may be authorized 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.

- 5.441** The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite 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 fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-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)
- 5.442** In the frequency bands 4 825-4 835 MHz and 4 950-4 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Mexico, Paraguay, Uruguay and Venezuela), and in Australia, the frequency band 4 825-4 835 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-15)
- 5.443AA** In the frequency bands 5 000-5 030 MHz and 5 091-5 150 MHz, the aeronautical mobile-satellite (R) service is subject to agreement obtained under No. 9.21. The use of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)
- 5.443B** 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 Earth's surface in the frequency band 5 030-5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the frequency band 5 010-5 030 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 frequency band 4 990-5 000 MHz, radionavigation-satellite service systems operating in the frequency band 5 010-5 030 MHz shall comply with the limits in the frequency band 4 990-5 000 MHz defined in Resolution 741 (Rev.WRC-15). (WRC-15)

- 5.443C** The use of the frequency band 5 030-5 091 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 5 030-5 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 010-5 030 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 5 010-5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC-12)
- 5.443D** In the frequency band 5 030-5 091 MHz, the aeronautical mobile-satellite (R) service is subject to coordination under No. 9.11A. The use of this frequency band by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)
- 5.444** The frequency band 5 030-5 150 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 5 030-5 091 MHz, the requirements of this system shall have priority over other uses of this frequency band. For the use of the frequency band 5 091-5 150 MHz, No. 5.444A and Resolution 114 (Rev.WRC-15) apply. (WRC-15)
- 5.444A** The use of the allocation to the fixed-satellite service (Earth-to-space) in the frequency band 5 091-5 150 MHz is limited to feeder links of non-geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A. The use of the frequency band 5 091-5 150 MHz by feeder links of non-geostationary satellite systems in the mobile-satellite service shall be subject to application of Resolution 114 (Rev.WRC-15). Moreover, to ensure that the aeronautical radionavigation service is protected from harmful interference, coordination is required for feeder-link earth stations of the non-geostationary satellite systems in the mobile-satellite service which are separated by less than 450 km from the territory of an administration operating ground stations in the aeronautical radionavigation service. (WRC-15)
- 5.444B** The use of the frequency band 5 091-5 150 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 (Rev.WRC 19);
 - aeronautical telemetry transmissions from aircraft stations (see No. 1.83) in accordance with Resolution 418 (Rev.WRC 19). (WRC 19)
- 5.446** Additional allocation: in the countries listed in No. 5.369, the frequency band 5 150-5 216 MHz is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis, subject to agreement obtained under No. 9.21. In Region 2 (except in Mexico), the frequency band is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis. In Regions 1 and 3, except those countries listed in No. 5.369 and Bangladesh, the frequency band is also allocated to the radiodetermination-satellite service (space-to-Earth) on

a secondary basis. The use by the radiodetermination-satellite service is limited to feeder links in conjunction with the radiodetermination-satellite service operating in the frequency bands 1 610-1 626.5 MHz and/or 2 483.5-2 500 MHz. The total power flux-density at the Earth's surface shall in no case exceed -159 dB(W/m²) in any 4 kHz band for all angles of arrival. (WRC-15)

- 5.446A** The use of the frequency bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution 229 (Rev.WRC-23). (WRC-23)
- 5.446B** In the band 5 150-5 250 MHz, stations in the mobile service shall not claim protection from earth stations in the fixed-satellite service. No. 5.43A does not apply to the mobile service with respect to fixed-satellite service earth stations. (WRC-03)
- 5.447A** The allocation to the fixed-satellite service (Earth-to-space) in the band 5 150-5 250 MHz is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A.
- 5.447B** Additional allocation: the band 5 150-5 216 MHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-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 fixed-satellite service operating in the space-to-Earth direction in the band 5 150-5 216 MHz shall in no case exceed -164 dB(W/m²) in any 4 kHz band for all angles of arrival.
- 5.447C** Administrations responsible for fixed-satellite service networks in the band 5 150-5 250 MHz operated under Nos. 5.447A and 5.447B shall coordinate on an equal basis in accordance with No. 9.11A with administrations responsible for non-geostationary-satellite networks operated under No. 5.446 and brought into use prior to 17 November 1995. Satellite networks operated under No. 5.446 brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixed-satellite service operated under Nos. 5.447A and 5.447B.
- 5.447D** The allocation of the band 5 250-5 255 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. (WRC-97)
- 5.447F** In the frequency band 5 250-5 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). The radiolocation service, the Earth exploration-satellite service (active) and the space research service (active) shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution 229 (Rev.WRC-23). (WRC-23)

- 5.448A** The Earth exploration-satellite (active) and space research (active) services in the frequency band 5 250-5 350 MHz shall not claim protection from the radiolocation service. No. 5.43A does not apply. (WRC-03)
- 5.448B** The Earth exploration-satellite service (active) operating in the band 5 350-5 570 MHz and space research service (active) operating in the band 5 460-5 570 MHz shall not cause harmful interference to the aeronautical radionavigation service in the band 5 350-5 460 MHz, the radionavigation service in the band 5 460-5 470 MHz and the maritime radionavigation service in the band 5 470-5 570 MHz. (WRC-03)
- 5.448C** The space research service (active) operating in the band 5 350-5 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03)
- 5.448D** In the frequency band 5 350-5 470 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. 5.449. (WRC-03)
- 5.449** The use of the band 5 350-5 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.
- 5.450A** In the frequency band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. The radiodetermination services shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution 229 (Rev.WRC-23). (WRC-23)
- 5.450B** In the frequency band 5 470-5 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 600-5 650 MHz, shall not cause harmful interference to, nor claim protection from, radar systems in the maritime radionavigation service. (WRC-03)
- 5.452** 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.
- 5.453** Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guinea, Equatorial Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Madagascar, Malaysia, Niger, Nigeria, Oman, Uganda, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sri Lanka, Tanzania, Chad, Thailand, Togo, Viet Nam and Yemen, the frequency band 5 650-5 850 MHz is also allocated to the fixed and mobile services on a primary basis. In this case, the provisions of Resolution 229 (Rev.WRC-23) do not apply. In addition, in Afghanistan, Angola, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Dem. Rep.

of the Congo, Fiji, Ghana, Kiribati, Lesotho, Malawi, Maldives, Mauritius, Micronesia, Mongolia, Mozambique, Myanmar, Namibia, Nauru, New Zealand, Papua New Guinea, Rwanda, Solomon Islands, South Sudan, South Africa, Tonga, Vanuatu, Zambia and Zimbabwe, the frequency band

5 725-5 850 MHz is allocated to the fixed service on a primary basis, and stations operating in the fixed service shall not cause harmful interference to and shall not claim protection from other primary services in the frequency band. (WRC-23)

5.457A In the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may communicate with space stations of the fixed-satellite service. Such use shall be in accordance with Resolution 902 (Rev.WRC-23). In the frequency band 5 925-6 425 MHz, earth stations located on board vessels and communicating with space stations of the fixed-satellite service may employ transmit antennas with minimum diameter of 1.2 m and operate without prior agreement of any administration if located at least 330 km away from the low-water mark as officially recognized by the coastal State. All other provisions of Resolution 902 (Rev.WRC-23) shall apply. (WRC-23)

5.6A12 The frequency bands 6 425-7 125 MHz in Region 1 and 7 025-7 125 MHz in Region 3 are identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution COM4/7 (WRC-23) applies.

The frequency bands are also used for the implementation of wireless access systems (WAS), including radio local area networks (RLANs). (WRC-23)

5.458 In the band 6 425-7 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 075-7 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth exploration-satellite (passive) and space research (passive) services in their future planning of the bands 6 425-7 075 MHz and 7 075-7 250 MHz.

5.458A In making assignments in the band 6 700-7 075 MHz to space stations of the fixed-satellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650-6 675.2 MHz from harmful interference from unwanted emissions.

5.458B The space-to-Earth allocation to the fixed-satellite service in the band 6 700-7 075 MHz is limited to feeder links for non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under No. 9.11A. The use of the band 6 700-7 075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile-satellite service is not subject to No. 22.2.

- 5.460** No emissions from space research service (Earth-to-space) systems intended for deep space shall be effected in the frequency band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and No. 5.43A does not apply. (WRC-15)
- 5.460A** The use of the frequency band 7 190-7 250 MHz (Earth-to-space) by the Earth exploration-satellite service shall be limited to tracking, telemetry and command for the operation of spacecraft. Space stations operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 250 MHz shall not claim protection from existing and future stations in the fixed and mobile services, and No. 5.43A does not apply. No. 9.17 applies. Additionally, to ensure protection of the existing and future deployment of fixed and mobile services, the location of earth stations supporting spacecraft in the Earth exploration-satellite service in non-geostationary orbits or geostationary orbit shall maintain a separation distance of at least 10 km and 50 km, respectively, from the respective border(s) of neighbouring countries, unless a shorter distance is otherwise agreed between the corresponding administrations. (WRC-15)
- 5.460B** Space stations on the geostationary orbit operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the space research service, and No. 5.43A does not apply. (WRC-15)
- 5.461** Additional allocation: the frequency bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. 9.21, with the exception that No. 9.21 shall not apply to the geostationary-satellite networks in the mobile-satellite service for which complete coordination information is received by the Bureau as of the date of entry into force of the Final Acts of WRC-23 with respect to non-geostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of the date of entry into force of the Final Acts of WRC-23. Non-geostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of the date of entry into force of the Final Acts of WRC-23 shall not cause unacceptable interference to and shall not claim protection from geostationary-satellite networks in the mobile- satellite service operating in accordance with these Regulations. No. 5.43A does not apply. (WRC-23)
- 5.A7(C)3** In the frequency band 7 375-7 750 MHz, non-geostationary-satellite systems operating in the fixed-satellite service for which complete coordination or notification information, according to the case, is received by the Bureau as of the date of entry into force of the Final Acts of WRC-23 shall not cause unacceptable interference to and shall not claim protection from

geostationary- satellite networks in the maritime mobile-satellite service operating in accordance with these Regulations. No. 5.43A does not apply. (WRC-23)

5.461A The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary meteorological-satellite 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)

5.461AA The use of the frequency band 7 375-7 750 MHz by the maritime mobile-satellite service is limited to geostationary-satellite networks. (WRC-15)

5.461AB In the frequency band 7 375-7 750 MHz, earth stations in the maritime mobile-satellite service shall not claim protection from, nor constrain the use and development of, stations in the fixed and mobile, except aeronautical mobile, services. No. 5.43A does not apply. (WRC-15)

5.461B The use of the band 7 750-7 900 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellite systems. (WRC-12)

5.462A A In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the Earth exploration-satellite service using geostationary satellites shall not produce a power flux-density in excess of the following values for angles of arrival (q), without the consent of the affected administration:

–135 dB(W/m²) in a 1 MHz band for $0 \leq q < 5^\circ$
 –135 + 0.5 ($q - 5$) dB(W/m²) in a 1 MHz band for $5 \leq q < 25^\circ$
 –125 dB(W/m²) in a 1 MHz band for $25 \leq q \leq 90^\circ$ (WRC 12)

5.463 Aircraft stations are not permitted to transmit in the band 8 025-8 400 MHz. (WRC-97)

5.465 In the space research service, the use of the band 8 400-8 450 MHz is limited to deep space.

5.468 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burundi, Cameroon, China, Congo (Rep. of the), Djibouti, Egypt, the United Arab Emirates, Eswatini, 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. People’s Rep. of Korea, Senegal, Singapore, **Somalia**, Sudan, Chad, Togo, Tunisia and Yemen, the frequency band 8 500-8 750 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-19)

- 5.469A** In the band 8 550-8 650 MHz, stations in the Earth exploration-satellite 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)
- 5.470** The use of the band 8 750-8 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.
- 5.472** In the bands 8 850-9 000 MHz and 9 200-9 225 MHz, the maritime radionavigation service is limited to shore-based radars.
- 5.473A** In the band 9 000-9 200 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, systems identified in No. 5.337 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. 5.471. (WRC-07)
- 5.474** In the band 9 200-9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article 31).
- 5.474B** Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2066-0. (WRC-15)
- 5.474C** Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2065-0. (WRC-15)
- 5.474D** Stations in the Earth exploration-satellite service (active) shall not cause harmful interference to, or claim protection from, stations of the maritime radionavigation and radiolocation services in the frequency band 9 200-9 300 MHz, the radionavigation and radiolocation services in the frequency band 9 900-10 000 MHz and the radiolocation service in the frequency band 10.0-10.4 GHz. (WRC-15)
- 5.475** The use of the band 9 300-9 500 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 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
- 5.475A** The use of the band 9 300-9 500 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz that cannot be fully accommodated within the 9 500-9 800 MHz band. (WRC-07)

- 5.475B** In the band 9 300-9 500 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)
- 5.476A** In the band 9 300-9 800 MHz, stations in the Earth exploration-satellite 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)
- 5.477** 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, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, **Somalia**, Sudan, South Sudan, Trinidad and Tobago, and Yemen, the allocation of the frequency band 9 800-10 000 MHz to the fixed service is on a primary basis (see No. 5.33). (WRC-15)
- 5.478A** The use of the band 9 800-9 900 MHz by the Earth exploration-satellite 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 9 300-9 800 MHz band. (WRC-07)
- 5.478B** In the band 9 800-9 900 MHz, stations in the Earth exploration-satellite 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)
- 5.479** The band 9 975-10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by weather radars.
- 5.481** Additional allocation: in Algeria, Germany, Angola, Brazil, China, Colombia, Costa Rica, Côte d'Ivoire, Cuba, Djibouti, the Dominican Republic, Egypt, El Salvador, Ecuador, Spain, Guatemala, Hungary, Jamaica, Japan, Kenya, Morocco, Mexico, Nigeria, Oman, Uzbekistan, Pakistan, Palestine*, Paraguay, Peru, the Dem. People's Rep. of Korea, Romania, Somalia, Suriname, Tunisia and Uruguay, the frequency band 10.45-10.5 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-23)
- 5.482** In the band 10.6-10.68 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, Kazakhstan, Kuwait, Lebanon, Libya, 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)

5.482A For sharing of the band 10.6-10.68 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution 751 (WRC-07) applies. (WRC-07)

5.484 In Region 1, the use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service.

5.484A The use of the frequency bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth) in Region 2, 12.2-12.75 GHz (space-to-Earth) in Region 3, 12.5-12.75 GHz (space-to-Earth) in Region 1, 13.75-14.5 GHz (Earth-to-space), 17.3- 17.7 GHz (space-to-Earth) in Region 2, 17.8-18.6 GHz (space-to-Earth), 19.7-20.2 GHz (space-to- Earth), 27.5-28.6 GHz (Earth-to-space), 29.5-30 GHz (Earth-to-space) by a non-geostationary- satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite 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 fixed- satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-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. In Region 2, No. 22.2 shall continue to apply in the frequency band 17.3-17.7 GHz. (WRC-23)

5.484B Resolution 155 (WRC-15) shall apply. (WRC-15)

5.487 In the band 11.7-12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)

5.487A Additional allocation: in Region 1, the band 11.7-12.5 GHz, in Region 2, the band 12.2-12.7 GHz and, in Region 3, the band 11.7-12.2 GHz, are also allocated to the fixed-satellite 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 fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite 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 fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-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-03)

- 5.A115** The frequency band 12.75-13.25 GHz (Earth-to-space) may be used by earth stations in motion, limited to earth stations on aircraft and vessels, communicating with geostationary space stations in the fixed-satellite service. Resolution COM5/2 (WRC-23) shall apply. (WRC-23)
- 5.492** Assignments to stations of the broadcasting-satellite 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 fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
- 5.494** Additional allocation: in Algeria, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Madagascar, Mali, Morocco, Mongolia, Nigeria, Oman, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)
- 5.497** The use of the band 13.25-13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
- 5.498A** The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25-13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
- 5.499A** The use of the frequency band 13.4-13.65 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary-satellite systems and is subject to agreement obtained under No. 9.21 with respect to satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015. (WRC-15)

- 5.499B** Administrations shall not preclude the deployment and operation of transmitting earth stations in the standard frequency and time signal-satellite service (Earth-to-space) allocated on a secondary basis in the frequency band 13.4-13.65 GHz due to the primary allocation to FSS (space-to-Earth). (WRC-15)
- 5.499C** The allocation of the frequency band 13.4-13.65 GHz to the space research service on a primary basis is limited to:
- satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015,
 - active spaceborne sensors,
 - satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations.
- Other uses of the frequency band by the space research service are on a secondary basis. (WRC 15)
- 5.499D** In the frequency band 13.4-13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15)
- 5.499E** In the frequency band 13.4-13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. 5.43A does not apply. The provisions of No. 22.2 do not apply to the Earth exploration-satellite service (active) with respect to the fixed-satellite service (space-to-Earth) in this frequency band. (WRC-15)
- 5.500** Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Djibouti, 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, Somalia, Sudan, South Sudan, Chad and Tunisia, the frequency band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis. In Pakistan, the frequency band 13.4-13.75 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-23)
- 5.501A** The allocation of the frequency band 13.65-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)

- 5.501B** In the band 13.4-13.75 GHz, the Earth exploration-satellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
- 5.502** In the band 13.75-14 GHz, an earth station of a geostationary fixed-satellite service network shall have a minimum antenna diameter of 1.2 m and an earth station of a non geostationary fixed-satellite 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 fixed-satellite 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 recognized 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 fixed-satellite 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)
- 5.503** In the band 13.75-14 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 fixed-satellite 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 13.77-13.78 GHz, the e.i.r.p. density of emissions from any earth station in the fixed-satellite 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 fixed-satellite 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 fixed-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 fixed-satellite 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 fixed-satellite 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 fixed-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 fixed-satellite 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)

5.504 The use of the band 14-14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixed-satellite service.

5.504A In the band 14-14.5 GHz, aircraft earth stations in the secondary aeronautical mobile-satellite service may also communicate with space stations in the fixed-satellite service. The provisions of Nos. 5.29, 5.30 and 5.31 apply. (WRC-03)

5.505 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Botswana, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Djibouti, Egypt, the United Arab Emirates, Eswatini, 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. People's Rep. of Korea, Singapore, **Somalia**, Sudan, South Sudan, Chad, Viet Nam and Yemen, the frequency band 14-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-19)

5.506 The band 14-14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the broadcasting-satellite service, subject to coordination with other networks in the fixed-satellite service. Such use of feeder links is reserved for countries outside Europe.

5.506A In the frequency band 14-14.5 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 (Rev.WRC-23). 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-23)

5.506B Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14-14.5 GHz without the need for prior agreement from Cyprus and Malta, within the minimum distance given in Resolution 902 (Rev.WRC-23) from these countries. (WRC-23)

5.509B The use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.5-14.8 GHz in countries listed in Resolution 164 (WRC-15) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service is limited to geostationary-satellites. (WRC-15)

- 5.509C** For the use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.5-14.8 GHz in countries listed in Resolution 164 (WRC-15) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service, the fixed-satellite service earth stations shall have a minimum antenna diameter of 6 m and a maximum power spectral density of -44.5 dBW/Hz at the input of the antenna. The earth stations shall be notified at known locations on land. (WRC-15)
- 5.509D** Before an administration brings into use an earth station in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service in the frequency bands 14.5-14.75 GHz (in countries listed in Resolution 163 (WRC-15)) and 14.5-14.8 GHz (in countries listed in Resolution 164 (WRC-15)), it shall ensure that the power flux-density produced by this earth station does not exceed -151.5 dB(W/(m² · 4 kHz)) produced at all altitudes from 0 m to 19 000 m above sea level at 22 km seaward from all coasts, defined as the low-water mark, as officially recognized by each coastal State. (WRC-15)
- 5.509E** In the frequency bands 14.50-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.50-14.8 GHz in countries listed in Resolution 164 (WRC-15), the location of earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall maintain a separation distance of at least 500 km from the border(s) of other countries unless shorter distances are explicitly agreed by those administrations. No. 9.17 does not apply. When applying this provision, administrations should consider the relevant parts of these Regulations and the latest relevant ITU-R Recommendations. (WRC-15)
- 5.509F** In the frequency bands 14.50-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.50-14.8 GHz in countries listed in Resolution 164 (WRC-15), earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall not constrain the future deployment of the fixed and mobile services. (WRC-15)
- 5.509G** The frequency band 14.5-14.8 GHz is also allocated to the space research service on a primary basis. However, such use is limited to the satellite systems operating in the space research service (Earth-to-space) to relay data to space stations in the geostationary-satellite orbit from associated earth stations. Stations in the space research service shall not cause harmful interference to, or claim protection from, stations in the fixed and mobile services and in the fixed-satellite service limited to feeder links for the broadcasting-satellite service and associated space operations functions using the guardbands under Appendix 30A and feeder links for the broadcasting-satellite service in Region 2. Other uses of this frequency band by the space research service are on a secondary basis. (WRC-15)
- 5.510** Except for use in accordance with Resolution 163 (WRC-15) and Resolution 164 (WRC-15), the use of the frequency band 14.5-14.8 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. This use is reserved for countries

outside Europe. Uses other than feeder links for the broadcasting-satellite service are not authorized in Regions 1 and 2 in the frequency band 14.75-14.8 GHz. (WRC-15)

- 5.A113** The allocation of the frequency band 14.8-15.35 GHz to the space research service on a primary basis is limited to satellite systems operating in the space-to-space, space-to-Earth and Earth-to-space directions at distances from the Earth of less than 2×10^6 km in accordance with Resolution COM5/7 (WRC-23). Other uses of the frequency band by the space research service are on a secondary basis. The use of the frequency band 14.8-15.35 GHz by the space research service (space-to-Earth) (Earth-to-space) is on a secondary basis with respect to the terrestrial services in Algeria, Saudi Arabia, Bahrain, Korea (Rep. of), Egypt, the United Arab Emirates, the United States, India, Iraq, Japan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen. (WRC-23)
- 5.511** Additional allocation: in Saudi Arabia, Bahrain, Cameroon, Djibouti, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, Kuwait, Lebanon, Oman, Pakistan, Qatar, the Syrian Arab Republic and Somalia, the frequency band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-23)
- 5.511A** Use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary systems in the mobile-satellite service, subject to coordination under No. 9.11A. (WRC-15)
- 5.AA110** Stations in the aeronautical mobile (OR) service operating in the frequency band 15.41- 15.7 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 15.35-15.4 GHz. The aggregate power flux-density (pfd) received from stations in the aeronautical mobile (OR) service operating in the frequency band 15.41-15.7 GHz at any radio astronomy station operating in the frequency band 15.35-15.4 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). (WRC-23)
- 5.511C** Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340-0. 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.1340-0. (WRC-15)
- 5.511E** In the frequency band 15.4-15.7 GHz, stations operating in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the aeronautical radionavigation service. (WRC-12)

- 5.511F** In order to protect the radio astronomy service in the frequency band 15.35-15.4 GHz, radiolocation stations operating in the frequency band 15.4-15.7 GHz shall not exceed the power flux-density level of -156 dB(W/m²) in a 50 MHz bandwidth in the frequency band 15.35-15.4 GHz, at any radio astronomy observatory site for more than 2 per cent of the time. (WRC-12)
- 5.512** Additional allocation: in Algeria, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Congo (Rep. of the), 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, Singapore, **Somalia**, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)
- 5.513A** Spaceborne active sensors operating in the band 17.2-17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)
- 5.514** Additional allocation: in Algeria, Saudi Arabia, Bahrain, Bangladesh, Cameroon, Djibouti, 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, Somalia, Sudan and South Sudan, the frequency band 17.3-17.7 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-23)
- 5.515** In the band 17.3-17.8 GHz, sharing between the fixed-satellite service (Earth-to-space) and the broadcasting-satellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix 30A.
- 5.516** The use of the band 17.3-18.1 GHz by geostationary-satellite systems in the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. The use of the band 17.3-17.8 GHz in Region 2 by systems in the fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3-17.8 GHz in Region 2 by feeder links for the broadcasting-satellite service in the band 12.2-12.7 GHz, see Article 11. The use of the bands 17.3-18.1 GHz (Earth-to-space) in Regions 1 and 3 and 17.8-18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite 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 fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. 5.43A does not apply. Non-geostationary-satellite systems in the fixed-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)

5.516A In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix 30A, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. (WRC-03)

5.516B The following bands are identified for use by high-density applications in the fixed-satellite service:

- 17.3-17.7 GHz (space-to-Earth) in Region 1,
- 18.3-19.3 GHz (space-to-Earth) in Region 2,
- 19.7-20.2 GHz (space-to-Earth) in all Regions,
- 39.5-40 GHz (space-to-Earth) in Region 1,
- 40-40.5 GHz (space-to-Earth) in all Regions,
- 40.5-42 GHz (space-to-Earth) in Region 2,
- 47.5-47.9 GHz (space-to-Earth) in Region 1,
- 48.2-48.54 GHz (space-to-Earth) in Region 1,
- 49.44-50.2 GHz (space-to-Earth) in Region 1, and
- 27.5-27.82 GHz (Earth-to-space) in Region 1,
- 28.35-28.45 GHz (Earth-to-space) in Region 2,
- 28.45-28.94 GHz (Earth-to-space) in all Regions,
- 28.94-29.1 GHz (Earth-to-space) in Region 2 and 3,
- 29.25-29.46 GHz (Earth-to-space) in Region 2,
- 29.46-30 GHz (Earth-to-space) in all Regions,
- 48.2-50.2 GHz (Earth-to-space) in Region 2.

This identification does not preclude the use of these frequency bands by other fixed-satellite service applications or by other services to which these frequency bands are allocated on a co-primary basis and does not establish priority in these Radio Regulations among users of the frequency bands. Administrations should take this into account when considering regulatory provisions in relation to these frequency bands. See Resolution 143 (Rev.WRC-19). (WRC-19)

5.517A The operation of earth stations in motion communicating with geostationary fixed-satellite service space stations within the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) shall be subject to the application of Resolution 169 (WRC-19). (WRC-19)

- 5.A116** The operation of aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service in the frequency bands 17.7- 18.6 GHz, 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) shall be subject to the application of Resolution COM5/3 (WRC-23). (WRC-23)
- 5.A117** For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz and 27.5-30 GHz, or parts thereof, by space stations in the inter-satellite service, Resolution COM5/8 (WRC-23) shall apply. Such use is limited to space research, space operation and/or Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space. When using these frequencies, administrations shall ensure that this inter-satellite service is used only for the aforementioned purposes and is not subject to coordination under No. 9.11A. For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz, 27.5-29.1 GHz and 29.5-30 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites or between non-geostationary satellites and geostationary satellites. For use of the frequency band 29.1-29.5 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites and geostationary satellites. No. 4.10 does not apply. (WRC-23)
- 5.519** Additional allocation: the bands 18-18.3 GHz in Region 2 and 18.1-18.4 GHz in Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
- 5.520** The use of the band 18.1-18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
- 5.522A** The emissions of the fixed service and the fixed-satellite service in the band 18.6-18.8 GHz are limited to the values given in Nos. 21.5A and 21.16.2, respectively. (WRC-2000)
- 5.522B** The use of the band 18.6-18.8 GHz by the fixed-satellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)
- 5.523A** The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) by geostationary and non-geostationary fixed-satellite 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 fixed-satellite 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)

- 5.523X** In order to protect feeder links of non-geostationary networks in the mobile-satellite service in the frequency band 19.3-19.7 GHz, the power flux-density values produced at the surface of the Earth for all angles of arrival by a space station in the inter-satellite service operating in this band in accordance with Resolution COM5/8 (WRC-23) shall not exceed -140 dB(W/m²) in any 1 MHz within 150 km of any of the above feeder-link earth stations recorded in the Master International Frequency Register. (WRC-23)
- 5.523B** The use of the band 19.3-19.6 GHz (Earth-to-space) by the fixed-satellite service is limited to feeder links for non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. 9.11A, and No. 22.2 does not apply.
- 5.523C** No. 22.2 shall continue to apply in the bands 19.3-19.6 GHz and 29.1-29.4 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite 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)
- 5.523D** The use of the band 19.3-19.7 GHz (space-to-Earth) by geostationary fixed-satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite 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 fixed-satellite service systems, or for the cases indicated in Nos. 5.523C and 5.523E, 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)
- 5.523E** No. 22.2 shall continue to apply in the bands 19.6-19.7 GHz and 29.4-29.5 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite 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)
- 5.B7(C)3** In the frequency bands 20.2-21.2 GHz and 30-31 GHz, non-geostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of the date of entry into force of the Final Acts of WRC-23 shall not cause unacceptable interference to and shall not claim protection from geostationary-satellite networks in the mobile-satellite service operating in accordance with these Regulations. No. 5.43A does not apply. (WRC-23)
- 5.524** Additional allocation: in Afghanistan, Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Djibouti, 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, Palestine*, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the

Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Tunisia, the frequency band 19.7-21.2 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 fixed-satellite service in the frequency band 19.7-21.2 GHz and of space stations in the mobile-satellite service in the frequency band 19.7-20.2 GHz where the allocation to the mobile-satellite service is on a primary basis in the latter frequency band. (WRC-23)

- 5.525** In order to facilitate interregional coordination between networks in the mobile-satellite and fixed-satellite services, carriers in the mobile-satellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7-20.2 GHz and 29.5-30 GHz.
- 5.526** In the bands 19.7-20.2 GHz and 29.5-30 GHz in Region 2, and in the bands 20.1-20.2 GHz and 29.9-30 GHz in Regions 1 and 3, networks which are both in the fixed-satellite service and in the mobile-satellite 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.
- 5.527** In the bands 19.7-20.2 GHz and 29.5-30 GHz, the provisions of No. 4.10 do not apply with respect to the mobile-satellite service.
- 5.527A** The operation of earth stations in motion communicating with the FSS is subject to Resolution 156 (Rev.WRC-23). (WRC-23)
- 5.528** The allocation to the mobile-satellite 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 mobile-satellite service in the band 19.7-20.1 GHz in Region 2 and in the band 20.1-20.2 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. 5.524.
- 5.530A** 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 $-120.4 \text{ dB(W/(m}^2 \cdot \text{MHz))}$ 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 also the most recent version of Recommendation ITU-R BO.1898). (WRC-15)
- 5.530B** In the band 21.4-22 GHz, in order to facilitate the development of the broadcasting-satellite 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)

- 5.B110** The use of the aeronautical mobile (OR) service in the frequency band 22-22.2 GHz is limited to non-safety applications. (WRC-23)
- 5.C110** Aircraft stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz are subject to agreement obtained under No. 9.21 with respect to the fixed service and shall not cause harmful interference to, nor claim protection from, the fixed service. The following power flux-density values shall be used as a threshold for coordination under No. 9.21:
- 110 dB(W/(m² · MHz)) for $0^\circ \leq \theta \leq 12.6^\circ$
- $2.86 \theta - 146$ dB(W/(m² · MHz)) for $12.6^\circ < \theta \leq 15^\circ$
- $0.87 \theta - 116$ dB(W/(m² · MHz)) for $15^\circ < \theta \leq 30^\circ$
- $0.067 \theta - 92$ dB(W/(m² · MHz)) for $30^\circ < \theta \leq 90^\circ$
- where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees.
- This criterion should be applied at the border of the territory of another administration for any aircraft station located at an altitude of up to 15 km above the ground. In conducting the calculations, the most recent version of Recommendation ITU-R P.525 should be used. (WRC-23)
- 5.D110** Stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 22.21-22.5 GHz. The aggregate power flux-density (pfd) received from these stations at any radio astronomy station operating in the frequency band 22.21-22.5 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). (WRC-23)
- 5.E110** In order to protect stations of the Earth exploration-satellite service (passive) operating in the frequency band 22.21-22.5 GHz, the unwanted equivalent isotropically radiated power (e.i.r.p.) of stations operating in the aeronautical mobile (OR) service shall not exceed –23 dBW in any 100 MHz band in the frequency band 22.21-22.5 GHz. (WRC-23)
- 5.F110** The use of the aeronautical mobile (OR) service in the frequency band 22-22.2 GHz outside national boundaries shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations. (WRC-23)

- 5.532** The use of the band 22.21-22.5 GHz by the Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
- 5.532A** 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. (WRC-12)
- 5.532AB** The frequency band 24.25-27.5 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution 242 (Rev.WRC-23) applies. (WRC-23)
- 5.532B** Use of the band 24.65-25.25 GHz in Region 1 and the band 24.65-24.75 GHz in Region 3 by the fixed-satellite service (Earth-to-space) is limited to earth stations using a minimum antenna diameter of 4.5 m. (WRC-12)
- 5.533** The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.
- 5.535** In the band 24.75-25.25 GHz, feeder links to stations of the broadcasting-satellite service shall have priority over other uses in the fixed-satellite 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.
- 5.535A** The use of the band 29.1-29.5 GHz (Earth-to-space) by the fixed-satellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobile-satellite 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. 5.523C and 5.523E 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)
- 5.536** Use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space.

- 5.536A** Administrations operating earth stations in the Earth exploration-satellite 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 exploration-satellite service or in the space research service should be operated taking into account the most recent version of Recommendation ITU-R SA.1862. Resolution 242 (Rev.WRC-23) applies. (WRC-23)
- 5.536B** In Algeria, Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Slovenia, Somalia, Sudan, Sweden, Tanzania, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the frequency band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. Resolution 242 (Rev.WRC-23) applies. (WRC-23)
- 5.536C** 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 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-12)
- 5.537** Space services using non-geostationary satellites operating in the inter-satellite service in the band 27-27.5 GHz are exempt from the provisions of No. 22.2.
- 5.538** Additional allocation: the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite 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)
- 5.539** The band 27.5-30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
- 5.540** Additional allocation: the band 27.501-29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.

- 5.541** In the band 28.5-30 GHz, the earth exploration-satellite 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.
- 5.541A** Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed-satellite service operating in the band 29.1-29.5 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)
- 5.542** Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Djibouti, 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, Palestine*, Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Somalia, Sudan, South Sudan, Sri Lanka and Chad, the frequency band 29.5-31 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-23)
- 5.543** The band 29.95-30 GHz may be used for space-to-space links in the Earth exploration-satellite service for telemetry, tracking, and control purposes, on a secondary basis.
- 5.543B** The allocation to the fixed service in the frequency band 31-31.3 GHz is identified for worldwide use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution 167 (Rev.WRC-23). (WRC-23)
- 5.544** In the band 31-31.3 GHz the power flux-density limits specified in Article 21, Table 21-4 shall apply to the space research service.
- 5.546** Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Djibouti, 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, Türkiye, Kyrgyzstan, Romania, the United Kingdom, Somalia, South Africa, Tajikistan and Turkmenistan, the allocation of the frequency band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33). (WRC-23)

- 5.547** The bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high-density applications in the fixed service. 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 fixed-satellite service in the bands 39.5-40 GHz and 40.5-42 GHz (see No. 5.516B), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-23)
- 5.547A** 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 31.8-33.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
- 5.548** In designing systems for the inter-satellite service in the band 32.3-33 GHz, for the radionavigation service in the band 32-33 GHz, and for the space research service (deep space) in the band 31.8-32.3 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 (Rev.WRC-23)). (WRC-23)
- 5.549** 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 33.4-36 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- 5.549A** In the band 35.5-36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-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)
- 5.550A** For sharing of the band 36-37 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile services, Resolution 752 (WRC-07) shall apply. (WRC-07)
- 5.550B** The frequency band 37-43.5 GHz, or portions thereof, is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Because of the potential deployment of FSS earth stations within the frequency range 37.5-42.5 GHz and high-density applications in the fixed-satellite service in the frequency bands 39.5-40 GHz in Region 1, 40-40.5 GHz in all Regions and 40.5-42 GHz in Region 2 (see No.

5.516B), administrations should further take into account potential constraints to IMT in these frequency bands, as appropriate. Resolution 243 (Rev.WRC-23) applies. (WRC-23)

5.A91D Non-geostationary-satellite systems in the fixed-satellite service operating with an apogee altitude above 407 km and below 2 000 km in the frequency band 37.5-38 GHz shall not exceed an unwanted emission e.i.r.p. density of -21 dB(W/100 MHz) per space station for angles greater than 65.0° from nadir relative to the space station in the fixed-satellite service in the frequency band 36-37 GHz in order to protect the Earth exploration-satellite service (passive) operating in the latter frequency band. (WRC-23)

5.550C The use of the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2- 50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed satellite service is subject to the application of the provisions of No. 9.12 for coordination with other non-geostationary satellite systems in the fixed-satellite service but not with non-geostationary-satellite systems in other services. Resolution 770 (WRC-19) shall also apply, and No. 22.2 shall continue to apply. (WRC-19)

5.550D The allocation to the fixed service in the frequency band 38-39.5 GHz is identified for worldwide use by administrations wishing to implement high-altitude platform stations (HAPS). In the HAPS-to-ground direction, the HAPS ground station shall not claim protection from stations in the fixed, mobile and fixed-satellite services; and No. 5.43A does not apply. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis and does not establish priority in the Radio Regulations. Furthermore, the development of the fixed-satellite, fixed and mobile services shall not be unduly constrained by HAPS. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution 168 (Rev.WRC-23). (WRC-23)

5.550E The use of the frequency bands 39.5-40 GHz and 40-40.5 GHz by non-geostationary-satellite systems in the mobile-satellite service (space-to-Earth) and by non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) is subject to the application of the provisions of No. 9.12 for coordination with other non-geostationary satellite systems in the fixed-satellite and mobile-satellite services but not with non-geostationary-satellite systems in other services. No. 22.2 shall continue to apply for non-geostationary-satellite-systems. (WRC-19)

5.551H The equivalent power flux-density (epfd) produced in the frequency band 42.5-43.5 GHz by all space stations in any non-geostationary-satellite system in the fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service operating in the frequency band 42-42.5 GHz, 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 frequency band 42.5-43.5

GHz 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 frequency band 42.5-43.5 GHz 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 0 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle θ_{min} of the radio telescope (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 authorized 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 15)

5.5511 The power flux-density in the band 42.5-43.5 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth), or the broadcasting-satellite service operating in the 42-42.5 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 42.5-43.5 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 42.5-43.5 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 authorized 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-03)

5.552 The allocation of the spectrum for the fixed-satellite service in the bands 42.5-43.5 GHz and 47.2-50.2 GHz for Earth-to-space transmission is greater than that in the band 37.5-39.5 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 47.2-49.2 GHz for feeder links for the broadcasting-satellite service operating in the band 40.5-42.5 GHz.

- 5.552A** The allocation to the fixed service in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz is identified for use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz by HAPS shall be in accordance with the provisions of Resolution 122 (Rev.WRC-19). (WRC-19)
- 5.553** In the bands 43.5-47 GHz and 66-71 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radio communication services to which these bands are allocated (see No. 5.43). (WRC-2000)
- 5.553A** In Algeria, Angola, Bahrain, Belarus, Benin, Botswana, Brazil, Burkina Faso, Cabo Verde, Korea (Rep. of), Côte d'Ivoire, Croatia, Djibouti, Egypt, United Arab Emirates, Estonia, Eswatini, Gabon, Gambia, Ghana, Greece, Guinea, Guinea-Bissau, Hungary, Iran (Islamic Republic of), Iraq, Jordan, Kuwait, Lesotho, Latvia, Liberia, Lithuania, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Qatar, Senegal, Seychelles, Sierra Leone, Slovenia, Somalia, Sudan, South Africa, Sweden, Tanzania, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 45.5-47 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT), taking into account No. 5.553. With respect to the aeronautical mobile service and radionavigation service, the use of this frequency band for the implementation of IMT is subject to agreement obtained under No. 9.21 with concerned administrations and shall not cause harmful interference to, or claim protection from these services. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution 244 (Rev.WRC-23) applies. (WRC-23)
- 5.553B** In Region 2 and Algeria, Angola, Saudi Arabia, Australia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lesotho, Liberia, Libya, Lithuania, Madagascar, Malaysia, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, South Sudan, South Africa, Sweden, Tanzania, Chad, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 47.2-48.2 GHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated, and does not establish any priority in the Radio Regulations. Resolution 243 (Rev.WRC-23) applies. (WRC-23)

- 5.554** In the bands 43.5-47 GHz, 66-71 GHz, 95-100 GHz, 123-130 GHz, 191.8-200 GHz and 252-265 GHz, satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with the mobile-satellite service or the radionavigation-satellite service. (WRC-2000)
- 5.554A** The use of the bands 47.5-47.9 GHz, 48.2-48.54 GHz and 49.44-50.2 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
- 5.555** Additional allocation: the band 48.94-49.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
- 5.555B** The power flux-density in the band 48.94-49.04 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth) operating in the bands 48.2-48.54 GHz and 49.44-50.2 GHz shall not exceed -151.8 dB(W/m²) in any 500 kHz band at the site of any radio astronomy station. (WRC-03)
- 5.555C** The use of the frequency band 51.4-52.4 GHz by the fixed-satellite service (Earth-to-space) is limited to geostationary-satellite networks. The earth stations shall be limited to gateway earth stations with a minimum antenna diameter of 2.4 metres. (WRC-19)
- 5.556** In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
- 5.556A** Use of the bands 54.25-56.9 GHz, 57-58.2 GHz and 59-59.3 GHz by the inter-satellite 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 inter-satellite 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)
- 5.557A** In the band 55.78-56.26 GHz, in order to protect stations in the Earth exploration-satellite 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)
- 5.558** In the bands 55.78-58.2 GHz, 59-64 GHz, 66-71 GHz, 122.25-123 GHz, 130-134 GHz, 167-174.8 GHz and 191.8-200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service (see No. 5.43). (WRC-2000)
- 5.558A** Use of the band 56.9-57 GHz by inter-satellite 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)

5.559 In the band 59-64 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service (see No. 5.43). (WRC-2000)

5.559AA The frequency band 66-71 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which this frequency band is allocated and does not establish priority in the Radio Regulations. Resolution 241 (Rev.WRC-23) applies. (WRC-23)

5.559B The use of the frequency band 77.5-78 GHz by the radiolocation service shall be limited to short-range radar for ground-based applications, including automotive radars. The technical characteristics of these radars are provided in the most recent version of Recommendation ITU-R M.2057. The provisions of No. 4.10 do not apply. (WRC-15)

5.560 In the band 78-79 GHz radars located on space stations may be operated on a primary basis in the Earth exploration-satellite service and in the space research service.

5.561 In the band 74-76 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixed-satellite service or stations of the broadcasting-satellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcasting-satellite service. (WRC-2000)

5.561A The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)

5.562 The use of the band 94-94.1 GHz by the Earth exploration-satellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)

5.562A In the bands 94-94.1 GHz and 130-134 GHz, transmissions from space stations of the Earth exploration-satellite 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)

5.562B In the frequency bands 105-109.5 GHz, 111.8-114.25 GHz and 217-226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-19)

- 5.562C** Use of the band 116-122.25 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed $-148 \text{ dB(W/(m}^2 \times \text{MHz))}$ for all angles of arrival. (WRC-2000)
- 5.562E** The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz. (WRC-2000)
- 5.562H** Use of the bands 174.8-182 GHz and 185-190 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed $-144 \text{ dB(W/(m}^2 \times \text{MHz))}$ for all angles of arrival. (WRC-2000)
- 5.563A** In the bands 200-209 GHz, 235-238 GHz, 250-252 GHz and 265-275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
- 5.B114** In the frequency band 235-238 GHz, stations in the Earth exploration-satellite service (passive) shall not claim protection from stations in the fixed and mobile services. (WRC-23)
- 5.563B** The band 237.9-238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
- 5.564A** For the operation of fixed and land mobile service applications in frequency bands in the range 275-450 GHz:
- The frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications where no specific conditions are necessary to protect Earth exploration-satellite service (passive) applications.
- The frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz may only be used by fixed and land mobile service applications when specific conditions to ensure the protection of Earth exploration-satellite service (passive) applications are determined in accordance with Resolution 731 (Rev.WRC-23).
- In those portions of the frequency range 275-450 GHz where radio astronomy applications are used, specific conditions (e.g. minimum separation distances and/or avoidance angles) may be

necessary to ensure protection of radio astronomy sites from land mobile and/or fixed service applications, on a case-by-case basis, in accordance with Resolution 731 (Rev.WRC-23).

The use of the above-mentioned frequency bands by land mobile and fixed service applications does not preclude use by, and does not establish priority over, any other applications of radio services in the range of 275-450 GHz. (WRC-23)

- 5.565** The following frequency bands in the range 275-1 000 GHz are identified for use by administrations for passive service applications:
- radio astronomy service: 275-323 GHz, 327-371 GHz, 388-424 GHz, 426 442 GHz, 453 510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz;
 - Earth exploration-satellite service (passive) and space research service (passive): 275-286 GHz, 296-306 GHz, 313-356 GHz, 361-365 GHz, 369-392 GHz, 397 399 GHz, 409-411 GHz, 416 434 GHz, 439-467 GHz, 477-502 GHz, 523 527 GHz, 538-581 GHz, 611-630 GHz, 634 654 GHz, 657-692 GHz, 713 718 GHz, 729-733 GHz, 750-754 GHz, 771-776 GHz, 823 846 GHz, 850 854 GHz, 857-862 GHz, 866-882 GHz, 905-928 GHz, 951-956 GHz, 968 973 GHz and 985-990 GHz.
- The use of the range 275-1 000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 275-1 000 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 275-1 000 GHz frequency range. All frequencies in the range 1 000-3 000 GHz may be used by both active and passive services. (WRC 12)

Annexes

Annex 1: Frequencies for distress and safety communications for the Global Maritime Distress and Safety System (GMDSS)

The frequencies to be used exclusively for Global Maritime Distress and Safety System (GMDSS) communications are given in the tables below (Appendix 15):

Frequency (kHz)	Description of usage	Notes
490	MSI	The frequency 490 kHz is used exclusively for maritime safety information (MSI). (WRC-03)
518	MSI	The frequency 518 kHz is used exclusively by the international NAVTEX system.
*2 174.5	NBDP-COM	
*2 182	RTP-COM	The frequency 2 182 kHz uses class of emission J3E. See also No. 52.190.
*2 187.5	DSC	
3 023	AERO-SAR	The aeronautical carrier (reference) frequencies 3 023 kHz and 5 680 kHz may be used for intercommunication between mobile stations engaged in coordinated search and rescue operations, and for communication between these stations and participating land stations, in accordance with the provisions of Appendix 27 (see Nos. 5.111 and 5.115).
*4 125	RTP-COM	See also No. 52.221. The carrier frequency 4 125 kHz may be used by aircraft stations to communicate with stations of the maritime mobile service for distress and safety purposes, including search and rescue (see No. 30.11).
*4 177.5	NBDP-COM	
*4 207.5	DSC	
4 209.5	MSI	The frequency 4 209.5 kHz is exclusively used for NAVTEX-type transmissions (see Resolution 339 (Rev.WRC-07)).
4 210	MSI-HF	
5 680	AERO-SAR	See note under 3 023 kHz above.
*6 215	RTP-COM	See also No. 52.221.
*6 268	NBDP-COM	
*6 312	DSC	
6 314	MSI-HF	
*8 291	RTP-COM	
*8 376.5	NBDP-COM	
*8 414.5	DSC	
8 416.5	MSI-HF	
*12 290	RTP-COM	
*12 520	NBDP-COM	

*12 577	DSC	
12 579	MSI-HF	
*16 420	RTP-COM	
*16 695	NBDP-COM	
*16 804.5	DSC	
16 806.5	MSI-HF	
19 680.5	MSI-HF	
22 376	MSI-HF	
26 100.5	MSI-HF	

Frequency (MHz)	Description of usage	Notes
*121.5	AERO-SAR	<p>The aeronautical emergency frequency 121.5 MHz is used for the purposes of distress and urgency for radiotelephony by stations of the aeronautical mobile service using frequencies in the frequency band between 117.975 MHz and 137 MHz. This frequency may also be used for these purposes by survival craft stations. Use of the frequency 121.5 MHz by emergency position-indicating radio beacons shall be in accordance with Recommendation ITU-R M.690-3.</p> <p>Mobile stations of the maritime mobile service may communicate with stations of the aeronautical mobile service on the aeronautical emergency frequency 121.5 MHz for the purposes of distress and urgency only, and on the aeronautical auxiliary frequency 123.1 MHz for coordinated search and rescue operations, using class A3E emissions for both frequencies (see also Nos. 5.111 and 5.200). They shall then comply with any special arrangement between governments concerned by which the aeronautical mobile service is regulated.</p>
123.1	AERO-SAR	<p>The aeronautical auxiliary frequency 123.1 MHz, which is auxiliary to the aeronautical emergency frequency 121.5 MHz, is for use by stations of the aeronautical mobile service and by other mobile and land stations engaged in coordinated search and rescue operations (see also No. 5.200).</p> <p>Mobile stations of the maritime mobile service may communicate with stations of the aeronautical mobile service on the aeronautical emergency frequency 121.5 MHz for the purposes of distress and urgency only, and on the aeronautical auxiliary frequency 123.1 MHz for coordinated search and rescue operations, using class A3E emissions for both frequencies (see also Nos. 5.111 and 5.200). They shall then comply with any special arrangement between governments concerned by which the aeronautical mobile service is regulated.</p>
156.3	VHF-CH06	<p>The frequency 156.3 MHz may be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations. It may also be used by aircraft stations to communicate with ship stations for other safety purposes (see also Note f) in Appendix 18).</p>

*156.525	VHF-CH70	The frequency 156.525 MHz is used in the maritime mobile service for distress and safety calls using digital selective calling (see also Nos. 4.9, 5.227, 30.2 and 30.3).
156.650	VHF-CH13	The frequency 156.650 MHz is used for ship-to-ship communications relating to the safety of navigation in accordance with Note <i>k</i>) in Appendix 18.
*156.8	VHF-CH16	The frequency 156.8 MHz is used for distress and safety communications by radiotelephony. Additionally, the frequency 156.8 MHz may be used by aircraft stations for safety purposes only.
*161.975	AIS-SART VHF CH AIS 1	AIS 1 is used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
*162.025	AIS-SART VHF CH AIS 2	AIS 2 is used for AIS search and rescue transmitters (AIS-SART) for use in search and rescue operations.
*406-406.1	406-EPIRB	This frequency band is used exclusively by satellite emergency position-indicating radio beacons in the Earth-to-space direction (see No. 5.266).
1 530-1 544	SAT-COM	In addition to its availability for routine non-safety purposes, the band 1 530-1 544 MHz is used for distress and safety purposes in the space-to-Earth direction in the maritime mobile-satellite service. GMDSS distress, urgency and safety communications have priority in this band (see No. 5.353A).
*1 544-1 545	D&S-OPS	Use of the band 1 544-1 545 MHz (space-to-Earth) is limited to distress and safety operations (see No. 5.356), including feeder links of satellites needed to relay the emissions of satellite emergency position-indicating radio beacons to earth stations and narrow-band (space-to-Earth) links from space stations to mobile stations.
1 621.35-1 626.5	SAT-COM	In addition to its availability for routine non-safety purposes, the frequency band 1 621.35-1 626.5 MHz is used for distress and safety purposes in the Earth-to-space and space-to-Earth directions in the maritime mobile-satellite service. GMDSS distress, urgency and safety communications have priority in this band over non-safety communications within the same satellite system. (WRC-19)
1 626.5-1 645.5	SAT-COM	In addition to its availability for routine non-safety purposes, the band 1 626.5-1 645.5 MHz is used for distress and safety purposes in the Earth-to-space direction in the maritime mobile-satellite service. GMDSS distress, urgency and safety communications have priority in this band (see No. 5.353A).
*1 645.5-1 646.5	D&S-OPS	Use of the band 1 645.5-1 646.5 MHz (Earth-to-space) is limited to distress and safety operations (see No. 5.375).
9 200-9 500	SARTS	This frequency band is used by radar transponders to facilitate search and rescue.

** Except as provided in these Regulations, any emission capable of causing harmful interference to distress, alarm, urgency or safety communications on the frequencies denoted by an asterisk (*) is prohibited. Any emission causing harmful interference to distress and safety communications on any of the discrete frequencies identified in this Appendix is prohibited. (WRC 07)*

Legend:

- AERO-SAR: These aeronautical carrier (reference) frequencies may be used for distress and safety purposes by mobile stations engaged in coordinated search and rescue operations.
- DSC: These frequencies are used exclusively for distress and safety calls using digital selective calling in accordance with No. 32.5 (see Nos. 33.8 and 33.32). (WRC-07)
- MSI: In the maritime mobile service, these frequencies are used exclusively for the transmission of maritime safety information (MSI) (including meteorological and navigational warnings and urgent information) by coast stations to ships, by means of narrow-band direct-printing telegraphy.
- MSI-HF: In the maritime mobile service, these frequencies are used exclusively for the transmission of highseas MSI by coast stations to ships, by means of narrow-band direct-printing telegraphy.
- NBDP-COM: These frequencies are used exclusively for distress and safety communications (traffic) using narrow-band direct-printing telegraphy.
- RTP-COM: These carrier frequencies are used for distress and safety communications (traffic) by radiotelephony.
- D&S-OPS: The use of these bands is limited to distress and safety operations of satellite emergency position-indicating radio beacons (EPIRBs).
- SAT-COM: These frequency bands are available for distress and safety purposes in the maritime mobile-satellite service (see Notes).
- VHF-CH#: These VHF frequencies are used for distress and safety purposes. The channel number (CH#) refers to the VHF channel as listed in Appendix 18, which should also be consulted.
- AIS: These frequencies are used by automatic identification systems (AIS), which should operate in accordance with the most recent version of Recommendation ITU-R M.1371. (WRC-07)

Annex 2: Frequency Allotment Plans

A2.1 Frequency allotment Plan for the Aeronautical Mobile (OR) Service (Appendix 26)

The frequencies allotted to SOMALIA for exclusive use for aeronautical mobile (OR) service within the area of SOMALIA are as follows:

S. No.	Frequency (kHz)
1	3080
2	3095
3	4703
4	4712
5	56965
6	5723
7	6694
8	6700
9	6709
10	8968
11	9022
12	11199
13	13206
14	17985

Notes:

- A bandwidth of up to a maximum of 2.8 kHz, situated wholly within the frequency channel concerned should be utilizable.
- The frequencies should only be used for Telephony (J3E, SSB, suppressed carrier) and Telegraphy (including Automatic Data transmission) {A1A, A1B, F1B; (A,H)2(A,B); (R,J)2(A,B,D); J(7,9)(B,D,X)}
- Power limits, class of emission and limits to unwanted emission shall be in accordance with the Appendix 26 of the Radio Regulations 2019

A2.2 Frequency allotment Plan for coast radiotelephone Stations operating in the exclusive maritime mobile bands between 4000 kHz and 27500 kHz (Appendix 25)

The frequencies allotted to SOMALIA for coast radiotelephone Stations operating in the exclusive maritime mobile service are as follows:

S. No.	Channel Number	Assigned Frequency (kHz)	Carrier Frequency (kHz)
1	401	4 358.4	4357

A2.3 Frequency allotment Plan for BSS in the frequency band 11.7 - 12.5 GHz (Appendix 30)

Details of the allotment for SOMALIA as per RR Appendix 30 are as follows:

Allotment Name	
Nominal Orbital Position	37.80
Longitude of Boresight	45.16
Latitude of Boresight	7.11
Major axis (Space Station Antenna)	3.31
Minor axis (Space Station Antenna)	1.51
Orientation (Space Station Antenna)	65.48
Space station: antenna gain / code	37.46 /R13TSS
Earth station: antenna gain / code	35.50/ MODRES
Polarization	CR
E.I.R.P.	57.4
Designation of Emission	27M0G7W

Notes

- a. Minimum Equivalent Protection Margin (EPM) should be as per as per Table 6B of the Appendix 30 of the RR.
- b. Requirements of article 9 and 11 of RR to be fulfilled.

A2.4 Frequency allotment Plan/List for Fixed-satellite service in the frequency bands 4500-4800 MHz and 6725-7025 MHz (Appendix 30B)

Details of the allotment plan for SOMALIA as per RR Appendix 30B are as follows:

Allotment Name	
Frequency Bands	4500-4800 MHz and 6725-7025 MHz
Nominal Orbital Position	98.40
Longitude of Boresight	46.00
Latitude of Boresight	6.30
Major axis of the elliptical cross-section half-power beam	3.10
Minor axis of the elliptical cross-section half-power beam	1.60
Orientation of the ellipse	72.00
Earth station E.I.R.P. density	-9.6
Satellite E.I.R.P. density	-38.8

A2.5 Frequency allotment Plan/List for Fixed-satellite service in the frequency bands 10.70-10.95 GHz, 11.2-11.45, GHz and 12.75- 13.25 GHz (Appendix 30B)

Details of the allotment plan for SOMALIA as per RR Appendix 30B are as follows:

Allotment Name	
Frequency Bands	10.70-10.95 GHz, 11.2-11.45, GHz and 12.75- 13.25 GHz
Nominal Orbital Position	98.40
Longitude of Boresight	46.00
Latitude of Boresight	6.30
Major axis of the elliptical cross-section half-power beam	3.10
Minor axis of the elliptical cross-section half-power beam	1.00
Orientation of the ellipse	72.00
Earth station E.I.R.P. density	-0.8
Satellite E.I.R.P. density	-25.5

A2.6 Table of transmitting frequencies in the VHF maritime mobile band (Appendix-18)

NOTE A – For assistance in understanding the Table, see Notes a) to zz) below. (WRC 15)

NOTE B – The Table below defines the channel numbering for maritime VHF communications based on 25 kHz channel spacing and use of several duplex channels. The channel numbering and the conversion of two-frequency channels for single-frequency operation shall be in accordance with Recommendation ITU R M.1084 5 Annex 4, Tables 1 and 3. The Table below also describes the harmonized channels where the digital technologies defined in the most recent version of Recommendation ITU R M.1842 could be deployed. (WRC 15)

Channel designator	Notes	Transmitting frequencies (MHz)		Inter-ship	Port operations and ship movement		Public correspondence
		From ship stations	From coast stations		Single frequency	Two frequency	
60	<i>m)</i>	156.025	160.625		x	x	x
01	<i>m)</i>	156.050	160.650		x	x	x
61	<i>m)</i>	156.075	160.675		x	x	x
02	<i>m)</i>	156.100	160.700		x	x	x
62	<i>m)</i>	156.125	160.725		x	x	x
03	<i>m)</i>	156.150	160.750		x	x	x
63	<i>m)</i>	156.175	160.775		x	x	x
04	<i>m)</i>	156.200	160.800		x	x	x
64	<i>m)</i>	156.225	160.825		x	x	x
05	<i>m)</i>	156.250	160.850		x	x	x
65	<i>m)</i>	156.275	160.875		x	x	x
06	<i>f)</i>	156.300		x			
2006	<i>r)</i>	160.900	160.900				
66	<i>m)</i>	156.325	160.925		x	x	x
07	<i>m)</i>	156.350	160.950		x	x	x
67	<i>h)</i>	156.375	156.375	x	x		
08		156.400		x			
68		156.425	156.425		x		
09	<i>i)</i>	156.450	156.450	x	x		
69		156.475	156.475	x	x		
10	<i>h), q)</i>	156.500	156.500	x	x		
70	<i>f), j)</i>	156.525	156.525	Digital selective calling for distress, safety and calling			
11	<i>q)</i>	156.550	156.550		x		
71		156.575	156.575		x		
12		156.600	156.600		x		
72	<i>i)</i>	156.625		x			
13	<i>k)</i>	156.650	156.650	x	x		
73	<i>h), i)</i>	156.675	156.675	x	x		
14		156.700	156.700		x		
74		156.725	156.725		x		

Channel designator	Notes	Transmitting frequencies (MHz)		Inter-ship	Port operations and ship movement		Public correspondence
		From ship stations	From coast stations		Single frequency	Two frequency	
15	<i>g)</i>	156.750	156.750	x	x		
75	<i>n), s)</i>	156.775	156.775		x		
16	<i>f)</i>	156.800	156.800	DISTRESS, SAFETY AND CALLING			
76	<i>n), s)</i>	156.825	156.825		x		
17	<i>g)</i>	156.850	156.850	x	x		
77		156.875		x			
18	<i>m)</i>	156.900	161.500		x	x	x
78	<i>m)</i>	156.925	161.525		x	x	x
1078		156.925	156.925		x		
2078	<i>mm)</i>		161.525		x		
19	<i>m)</i>	156.950	161.550		x	x	x
1019		156.950	156.950		x		
2019	<i>mm)</i>		161.550		x		
79	<i>m)</i>	156.975	161.575		x	x	x
1079		156.975	156.975		x		
2079	<i>mm)</i>		161.575		x		
20	<i>m)</i>	157.000	161.600		x	x	x
1020		157.000	157.000		x		
2020	<i>mm)</i>		161.600		x		
80	<i>y), wa)</i>	157.025	161.625		x	x	x
21	<i>y), wa)</i>	157.050	161.650		x	x	x
81	<i>y), wa)</i>	157.075	161.675		x	x	x
22	<i>y), wa)</i>	157.100	161.700		x	x	x
82	<i>x), y), wa)</i>	157.125	161.725		x	x	x
23	<i>x), y), wa)</i>	157.150	161.750		x	x	x
83	<i>x), y), wa)</i>	157.175	161.775		x	x	x
24	<i>w), x)</i>	157.200	161.800		x	x	x
1024	<i>w)</i>	157.200	157.200	x (digital only)	x (digital only)		
2024	<i>w)</i>	161.800	161.800	x (digital only)	x (digital only)		
84	<i>w), x)</i>	157.225	161.825		x	x	x
1084	<i>w)</i>	157.225	157.225	x (digital only)	x (digital only)		
2084	<i>w)</i>	161.825	161.825	x (digital only)	x (digital only)		
25	<i>w), x)</i>	157.250	161.850		x	x	x
1025	<i>w)</i>	157.250	157.250	x (digital only)	x (digital only)		
2025	<i>w)</i>	161.850	161.850	x (digital only)	x (digital only)		
85	<i>w), x)</i>	157.275	161.875		x	x	x

Channel designator	Notes	Transmitting frequencies (MHz)		Inter-ship	Port operations and ship movement		Public correspondence
		From ship stations	From coast stations		Single frequency	Two frequency	
1085	w)	157.275	157.275	x (digital only)	x (digital only)		
2085	w)	161.875	161.875	x (digital only)	x (digital only)		
26	w), x)	157.300	161.900		x	x	x
1026	w)	157.300					
2026	w)		161.900				
86	w), x)	157.325	161.925		x	x	x
1086	w)	157.325					
2086	w)		161.925				
1027	zz)	157.350	157.350		x		
ASM 1	z)	161.950	161.950				
87	zz)	157.375	157.375		x		
1028	zz)	157.400	157.400		x		
ASM 2	z)	162.000	162.000				
88	zz)	157.425	157.425		x		
AIS 1	f), l), p)	161.975	161.975				
AIS 2	f), l), p)	162.025	162.025				

Notes referring to the Table

General notes

- a) Administrations may designate frequencies in the inter-ship, port operations and ship movement services for use by light aircraft and helicopters to communicate with ships or participating coast stations in predominantly maritime support operations under the conditions specified in Nos. **51.69, 51.73, 51.74, 51.75, 51.76, 51.77** and **51.78**. However, the use of the channels which are shared with public correspondence shall be subject to prior agreement between interested and affected administrations.
- b) The channels of the present Appendix, with the exception of channels 06, 13, 15, 16, 17, 70, 75 and 76, may also be used for high-speed data and facsimile transmissions, subject to special arrangement between interested and affected administrations.
- c) The channels of the present Appendix, with the exception of channels 06, 13, 15, 16, 17, 70, 75 and 76, may be used for direct-printing telegraphy and data transmission, subject to special arrangement between interested and affected administrations. (WRC-12)
- d) The frequencies in this table may also be used for radiocommunications on inland waterways in accordance with the conditions specified in No. **5.226**.
- e) Administrations may apply 12.5 kHz channel interleaving on a non-interference basis to 25 kHz channels, in accordance with the most recent version of Recommendation ITU-R M.1084, provided:
 - it shall not affect the 25 kHz channels of the present Appendix maritime mobile distress and safety, automatic identification system (AIS), and data exchange frequencies, especially the channels 06, 13, 15, 16, 17, 70, AIS 1 and AIS 2, nor the technical characteristics set forth in Recommendation ITU-R M.489-2 for those channels;

- implementation of 12.5 kHz channel interleaving and consequential national requirements shall be subject to coordination with affected administrations. (WRC-12)

Specific notes

- f) The frequencies 156.300 MHz (channel 06), 156.525 MHz (channel 70), 156.800 MHz (channel 16), 161.975 MHz (AIS 1) and 162.025 MHz (AIS 2) may also be used by aircraft stations for the purpose of search and rescue operations and other safety-related communication. The frequencies 156.525 MHz (channel 70), 161.975 MHz (AIS 1) and 162.025 MHz (AIS 2) may also be used by autonomous maritime radio devices Group A that enhance the safety of navigation, using digital selective calling and/or AIS technology. Such use should be in accordance with the most recent version of Recommendation ITU-R M.2135. (WRC-19)
- g) Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters.
- h) Within the European Maritime Area and in Canada, these frequencies (channels 10, 67, 73) may also be used, if so required, by the individual administrations concerned, for communication between ship stations, aircraft stations and participating land stations engaged in coordinated search and rescue and anti-pollution operations in local areas, under the conditions specified in Nos. **51.69, 51.73, 51.74, 51.75, 51.76, 51.77 and 51.78**.
- i) The preferred first three frequencies for the purpose indicated in Note a) are 156.450 MHz (channel 09), 156.625 MHz (channel 72) and 156.675 MHz (channel 73).
- j) Channel 70 is to be used exclusively for digital selective calling for distress, safety and calling.
- k) Channel 13 is designated for use on a worldwide basis as a navigation safety communication channel, primarily for intership navigation safety communications. It may also be used for the ship movement and port operations service subject to the national regulations of the administrations concerned.
- l) These channels (AIS 1 and AIS 2) are used for an automatic identification system (AIS) capable of providing worldwide operation, unless other frequencies are designated on a regional basis for this purpose. Such use should be in accordance with the most recent version of Recommendation ITU-R M.1371. (WRC-07)
- m) These channels may be operated as single frequency channels, subject to coordination with affected administrations. The following conditions apply for single frequency usage:
 - The lower frequency portion of these channels may be operated as single frequency channels by ship and coast stations.
 - Transmission using the upper frequency portion of these channels is limited to coast stations.
 - If permitted by administrations and specified by national regulations, the upper frequency portion of these channels may be used by ship stations for transmission. All precautions should be taken to avoid harmful interference to channels AIS 1, AIS 2, ASM 1 and ASM 2. (WRC-19)
- mm) Transmission on these channels is limited to coast stations. If permitted by administrations and specified by national regulations, these channels may be used by ship stations for transmission. All precautions should be taken to avoid harmful interference to channels AIS 1, AIS 2, ASM 1 and ASM 2. (WRC-19)
- n) With the exception of AIS, the use of these channels (75 and 76) should be restricted to navigation-related communications only and all precautions should be taken to avoid harmful interference to channel 16, by limiting the output power to 1 W. (WRC-12)
- o) (SUP - WRC-12)
- p) Additionally, AIS 1 and AIS 2 may be used by the mobile-satellite service (Earth-to-space) for the reception of AIS transmissions from ships. (WRC-07)
- q) When using these channels (10 and 11), all precautions should be taken to avoid harmful interference to channel 70. (WRC-07)

- r) In the maritime mobile service, the frequency 160.9 MHz (channel 2006) is designated for autonomous maritime radio devices Group B that do not enhance the safety of navigation, using AIS technology, in accordance with the most recent version of Recommendation ITU-R M.2135. Autonomous maritime radio devices Group B are limited to a transmitter e.i.r.p. of 100 mW and an antenna height not exceeding 1 m above the surface of the sea.

In the maritime mobile service, this frequency may also be used for experimental use for future applications or systems (e.g. new AIS applications, man over board systems, etc.). If authorized by administrations for experimental use, the operation shall not cause harmful interference to, or claim protection from, stations operating in the fixed and mobile services, including the use of autonomous maritime radio devices Group B. (WRC-19)

- s) Channels 75 and 76 are also allocated to the mobile-satellite service (Earth-to-space) for the reception of long-range AIS broadcast messages from ships (Message 27; see the most recent version of Recommendation ITU-R M.1371). (WRC-12)

t) (SUP - WRC-15)

u) (SUP - WRC-15)

v) (SUP - WRC-15)

- w) The frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz (corresponding to channels: 24, 84, 25, 85, 26, 86, 1024, 1084, 1025, 1085, 1026, 1086, 2024, 2084, 2025, 2085, 2026 and 2086) are identified for the utilization of the VHF Data Exchange System (VDES). The VDES terrestrial and satellite components are described in the most recent version of Recommendation ITU-R M.2092. These channels shall not be used for feeder links. The channels may be merged using multiple 25 kHz contiguous channels to form channel bandwidths of 50, 100 or 150 kHz. The channel usage is shown below:

- The channels 1024, 1084, 1025 and 1085 are identified for ship-to-shore, shore-to-ship and ship-to-ship communications, but ship-to-satellite and satellite-to-ship communications may be possible without imposing constraints on ship-to-shore, shore-to-ship and ship-to-ship communications.
- The channels 2024, 2084, 2025 and 2085 are identified for shore-to-ship and ship-to-ship communications, but ship-to-satellite and satellite-to-ship communications may be possible without imposing constraints on shore-to-ship and ship-to-ship communications.
- The channels 1026, 1086, 2026 and 2086 are identified for ship-to-satellite and satellite-to-ship communications and are not used by the terrestrial component of VDES.
- The channels 24, 84, 25 and 85 are identified for ship-to-shore and shore-to-ship communications.

The Earth-to-space component of the VDES shall not cause harmful interference to, nor claim protection from, nor restrict future development of, terrestrial systems operating in the same frequency bands.

Until 1 January 2030, the channels 24, 84, 25, 85, 26 and 86 may also be used for analogue modulation described in the most recent version of Recommendation ITU-R M.1084 by an administration that wishes to do so, subject to not causing harmful interference to, or claiming protection from other stations in the maritime mobile service using digitally modulated emissions and subject to coordination with affected administrations. (WRC-19)

- wa) In Regions 1 and 3:

The frequency bands 157.0125-157.1125 MHz and 161.6125-161.7125 MHz (corresponding to channels: 80, 21, 81 and 22) are identified for utilization of the digital systems described in the most recent version of Recommendation ITU-R M.1842 using multiple 25 kHz contiguous channels.

The frequency bands 157.1375-157.1875 MHz and 161.7375-161.7875 MHz (corresponding to channels: 23 and 83) are identified for utilization of the digital systems described in the most recent version of Recommendation ITU-R M.1842 using two 25 kHz contiguous channels. The frequencies 157.125 MHz and 161.725 MHz (corresponding to channel: 82) are identified for the utilization of the digital systems described in the most recent version of Recommendation ITU-R M.1842.

The frequency bands 157.0125-157.1875 MHz and 161.6125-161.7875 MHz (corresponding to channels: 80, 21, 81, 22, 82, 23 and 83) can also be used for analogue modulation described in the most recent version of Recommendation ITU-R M.1084 by an administration that wishes to do so, subject to not claiming protection from other stations in the maritime mobile service using digitally modulated emissions and subject to coordination with affected administrations. (WRC-19)

- x) In Angola, Botswana, Eswatini, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Democratic Republic of the Congo, Seychelles, South Africa, Tanzania, Zambia and Zimbabwe, the frequency bands 157.1125-157.3375 and 161.7125-161.9375 MHz (corresponding to channels: 82, 23, 83, 24, 84, 25, 85, 26 and 86) are designated for digitally modulated emissions.

In China, the frequency bands 157.1375-157.3375 and 161.7375-161.9375 MHz (corresponding to channels: 23, 83, 24, 84, 25, 85, 26 and 86) are designated for digitally modulated emissions. (WRC-19)

- y) These channels may be operated as single or duplex frequency channels, subject to coordination with affected administrations. (WRC-12)
- z) Channels ASM 1 and ASM 2 are used for application specific messages (ASM) as described in the most recent version of Recommendation ITU-R M.2092. (WRC-19)
- zz) Channels 1027, 1028, 87 and 88 are used as single-frequency analogue channels for port operation and ship movement. (WRC-19)

Annex 3: Terrestrial Broadcasting Plans

SOMALIA is signatory of number of ITU-R regional agreements and assigns the frequencies according to associated plans. Current recorded/coordinated Broadcasting plan/frequencies with respect to their associated agreements are given below¹:

A3.1 GE-75 Agreement

Regional Agreement concerning the Use by the Broadcasting Service of Frequencies in the Medium Frequency Bands in ITU-R Regions 1 and 3 and in the Low Frequency Bands in ITU-R Region 1.

LF: 150-285 kHz

MF: 525-1605 kHz

<https://www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/LFMF.aspx>

A3.2 GE-84 Agreement

It is relating to the Use of the Band 87.5 - 108 MHz for FM Sound Broadcasting and include the countries of Region 1 as defined in No. 393 of the Radio Regulations together with the Democratic Republic of Afghanistan and the Islamic Republic of Iran. The plan includes assignments in VHF-FM band i.e. Band II: 87.5-108 MHz.

¹ Terrestrial broadcasting area maps can be shown at the ITU website <https://www.itu.int/en/ITU-R/terrestrial/broadcast/plans/Pages/plans.aspx>

<https://www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/FMTV.aspx>

A3.3 GE-89 Agreement

Plan for VHF/UHF television broadcasting in the African Broadcasting Area and neighboring countries, Geneva, 1989 Rev. 2006 (GE89).

Band I: 47-68 MHz

Band III: 230-238 MHz, 246-254 MHz

<https://www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/FMTV.aspx>

A3.4 GE-06 Agreement

Plans for VHF/UHF analogue and digital broadcasting in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz, Geneva 2006 (GE06).

Band III: 174-230 MHz

Band IV: 470-582 MHz

Band V: 582-862 MHz

<https://www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/FMTV.aspx>