A Guide to Retrieving Specific Space Services from Article 5 Frequency Allocations of the Radio Regulations Utilizing the RR5 FATViewer Tool

1 Introduction

The RR5 Table of Frequency Allocations (TFA) Software is a stand-alone application that provides a mechanism to electronically use, query and analyze the Table of Frequency Allocations and its associated footnotes, as they appear in the Article **5** of Radio Regulations (RR), as well as some other related texts (Resolutions, ITU-R Recommendations, Rules of Procedure). This software application runs on individual user's PC and requires neither network nor Internet connection. It is limited to the scope and boundaries of the Article **5** of the RR and is the perfect complement to the RR that incorporates the decisions of the World Radiocommunication Conferences (WRCs).

Built around a relational database model, the software is equipped with various tools and utilities that allow, among others, for advanced and complex search functions, data export to various formats, as well as for the tracing and comparison of the evolution of the Article **5** Table and its associated footnotes (from the 2001 Edition onward).

For comprehensive details and in-depth instructions, please consult the online guidelines here:

• RR5FATViewer_User's_Guide.pdf (available at: [go URL ...])

2 Usage Preface

The software is equipped with a detailed <u>user's guide</u> which illustrates the various available features for querying the RR5 TFA and its associated footnotes. When working with the RR5 TFA, the software operates in two distinct modes, the *standard* mode, and the *fully customized* mode.

To perform complex queries, which take full advantage of the various provisions of the RR5 footnotes, it is recommended to set the mode to fully customized (see the user's guide for details).

<u>P</u> references	<u>T</u> ools	 <u>H</u> elp		
🦀 Settings				
📷 Main Ta	ble Opti	ons		
😭 Open Application Working Folder				

Main Table Allocations Options	?		×
The options you may specify below will affect the layout, features of the Main Allocations Table Allocations Table Mode	, display a	and s	earch
Standard Mode Fully Customized Mode	X	Cano	el
☑ Indude Global Additional Allocations			
$\overline{\mathbf{V}}$] Indude Geographic Areas Specific Allocations Modifiers			
☑ Indude Global Prohibited Frequency Bands			
✓ Indude Conditional Allocations			

2.1 Administration Code

The RR 5 FATViewer is equipped with some features allowing for data export/import from/to various formats, as well as data editing and customization mechanisms. However, editing and customization features are limited to the frequency allocations pertaining to the user's specified own Administration. Hence, when the software is first started (after successful licensing), you are prompted to confirm your Administration code to be used for that purpose and the code specified will later be used to control which data can be edited.

It is important to note that once this is set, it cannot be changed.

2.2 The Main Table View

The Main Table View mode is the default operational mode of the RR5 FATViewer. In this mode, the Main Table is presented and laid out (to the extent feasible) as it looks in the Article **5** text, with three columns representing the three ITU Regions and the corresponding frequency allocations boxes.

Every frequency allocation box consists of a highlighted indication of the frequency band. It covers an enumeration of the radiocommunication services to which the box is allocated (Primary services are displayed by default as BOLD UNDERLINED UPPERCASE and Secondary services by default as Gray underlined lowercase and the list of footnotes (if any) associated with each service or with the box as a whole.

2.2.1 Querying the Main Table

Complex queries on the content of the Main Table can be performed by invoking the "Query Main Table Allocations" dialog, and allows for the combination of various criteria, namely

- Specify one (or more) region(s)
- Specify one (or more) frequency(ies) or frequency band(s). The specified frequency bands do not necessarily have to match exactly the Main Table Partition
- Specify one (or more) radiocommunication service(s) and category(ies) and combine them
- Specify "smart upward" and/or "smart downward" search strategy, thus defining the way the software should walk through the radiocommunication services families and relationships
- Specify one (or more) relevant footnote(s).

2.2.2 Specifying radiocommunication services

Select the relevant radiocommunication service(s) from the lists of "available services", according to the desired service category, then click "Add" to build the search list of the radiocommunication services. The lists of available services are already filtered according to their "existence" in the Main Table. That is, if a given service category combination does not appear in the lists, it is mainly because no such allocation exists.

2.3 The Footnotes View

The Footnotes View mode is another important operational mode of the RR 5 FATViewer. It is accessible via the menu item "Footnotes-View all" or, alternatively, by clicking the corresponding icon on the main toolbar.

In this mode, the software loads and presents the list of all footnotes of the Article **5** associated with the Main Table.

2.3.1 Querying Footnotes

Advanced queries on the Article 5 footnotes meta data can be performed by invoking the "Search footnotes" dialog, and allows for the combination of various criteria, namely

- Specify one (or more) region(s)
- Specify one (or more) Administrations, or one (or more) geographic areas or countries (depending on the selected Region. The implemented relationships between Regions, Administrations and country codes is further described on the next page)
- Specify one (or more) type of modifiers of the Main Table (Additional allocations, Alternative allocations, Different Categories of Services provisions)
- Specify one (or more) footnote source, being understood that the footnote source is the considered to be either the WRC which introduced or suppressed the footnote, or the last "known to the software" WRC which modified the footnote.

3 Usage examples

Below are some examples of possible queries, aiming to find the various frequency bands allocated to various radiocommunication services, considering the desired Radiocommunication Region and service category (primary or secondary).

3.1 Frequency bands allocated to Space Operation Service

• Activate the search feature:



• Add the Space Operation service components to the list of wanted services, ensure the "Any of the following selected" option is activated and click "Search".

Frequency Bards	agent i agent i			Search
				Save Que
From MHz * To	MHZ *			Open Qu
		 Automatically merge overlapping bands 	-	Res
		Enlarge to bands union	0	a Can
		Reduce to bands intersection		
Radiocemmunication Services				
Any of the fi	slowing selected 🔘 All of	the following selected		
Primary Services				
SPACE RESEARCH	A 🐟 SPACE	OPERATION (Earth-to-space)		
SPACE RESEARCH (active spaceborne sensors) SPACE RESEARCH (active)	SPACE SPACE	OPERATION (satellite identification) OPERATION (space-to-Earth)		
SPACE RESEARCH (active) (spaceborne cloud radar	s) SPACE	OPERATION (space-to-space)		
COALE DECEMPTU (deam rester) (rester to space)	* 🍝 3PALE	Controlliona (telemetry)		
Secondary Services				
Radionavigation-satellite	* 🚓 Space	operation (Earth-to-space)		
Space research Space research (active)	Space Space	operation (space-to-Earth)		
Space research (deep space)				
France contained for any second franks to second				
space research (deep space) (cann-to-space)				

• The software then finds and displays the matching frequency bands allocated to the selected services. The displayed results can be navigated and restricted to one or more Radiocommunication Regions.

Query results		- 🗆 ×
V Region 1 V Region 2 V Region 3	Page 🖸 🚺 Page 1/3	
Desire 1		
		Regions
Table: 30.005 - 30.01 MHz	Table: 30.005 - 30.01 MHz	Table: 30.005 - 30.01 MHz
FIXED	FIXED	FIXED
MOBILE	MOBILE	MOBILE
IISPACE OPERATION (satellite identification)	SPACE OPERATION (satellite identification)	SPACE OPERATION (satellite identification)
SPACE RESEARCH	SPACE RESEARCH	SPACE RESEARCH
Table: 137 - 137.025 MHz	Table: 137 - 137.025 MHz	Table: 137 - 137.025 MHz
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL-SATELLITE (space-to-Earth)
MOBILE-SATELLITE (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209
SPACE OPERATION (space-to-Earth) 5.203C	SPACE OPERATION (space-to-Earth) 5.203C	SPACE OPERATION (space-to-Earth) 5.203C
SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-to-Earth)
Fixed	Fixed	Fixed
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)
Different Category of Service: 137 - 137.025 MHz	Different Category of Service: 137 - 137.025 MHz	Additional: 137 - 137.025 MHz
FIXED	FIXED	BROADCASTING
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	
		5.207
5.204	5.204	Australia
Query results		- 🗆 ×
V Region 1 V Region 2 V Region 3	Page 1 Page 2/3	
Additional: 432 - 438 MHz	<u>Fixed</u>	Iran (Islamic Republic of), <u>Malaysia</u> , <u>Pakistan</u> , <u>Philippines</u> , <u>Singapore</u>
FIXED	5.279	
	Mexico	5.262 5.264
5.276	Different Category of Service: 432 - 438 MHz	Table: 401 - 402 MHz
United Arab Emirates, Eritrea, Ethiopia, Greece, Guinea, Iraq,	AMATEUR	EARTH EXPLORATION-SATELLITE (Earth-to-space)
Oman, Qatar, Syrian Arab Republic, Somalia, Sudan, Switzerland, Tono, Turkey, Yemen		METEOROLOGICAL AIDS
	5.278	METEOROLOGICAL-SATELLITE (Earth-to-space)
Additional: 432 - 435 PHI2 MOBILE excent aeronautical mobile	Argentina, Brazil, Colombia, Costa Rica, Cuba, Guyana, Honduras, Panama, Paraguay, Uruguay, Venezuela	SPACE OPERATION (space-to-Earth)
TODIC COCCUCIONADOLA MODIC		Fixed
5.276	5.271 5.276 5.278 5.279 5.281 5.282	Mobile except aeronautical mobile
Algeria, Saudi Arabia, Bahrain, Burkina Faso, Djibouti, Egypt,	Table: 440 - 450 MHz	5.264A 5.264B
Israel, Italy, Jordan, Kenya, Kuwait, Libya, Niger, Nigeria, Oman, Datar, Svrian, Arab Republic, Somalia, Sudan	FIXED	
Switzerland, Togo, Turkey, Yemen	MOBILE except aeronautical mobile	1adle: 432 • 438 MHZ
Additional: 432 - 438 MHz	Radiolocation	Amateur
EIXED	Additional (Regions 1, 2, 3): 449.75 - 450 MHz	Earth exploration-satellite (active) 5.279A
	SPACE OPERATION (Earth-to-space)	Additional (Regions 1, 2, 3): 435 - 438 MHz
5.277	SPACE RESEARCH (Earth-to-space)	Amateur-satelite
Angola, Armenia, Azerbaijan, Belarus, Cameroon, Congo (Rep. of the), Diibouti, Russian Federation, Georgia, Hungary,		
Israel, Kazakhstan, Mali, Uzbekistan, Poland, Dem. Rep. of the Congo, Kyrgyzstan, Slovakia, Romania, Rwanda, Tajikistan, Chad Tudawaitha Ulumia, Illumia, Silanda, Salaka, Sal	5.286	5.282
	Additional: 440 - 450 MHz	Additional: 432 - 438 MHz
Additional: 433.75 - 434.25 MHz	Amateur	Aeronautical radionavigation (radio altimeters)
ppace operation (Earth-to-space)		
5,281	5.270 United States Jamaica	5.271
France	United States, Jamaica	China, India
	Additional: 440 - 450 MHz	Additional: 432 - 438 MHz
	Amateur	FIXED

3.2 Frequency bands for Amateur-Satellite service

• Similar actions can be taken, by specifying the Amateur-Satellite service in the list of wanted services:

Query Main Table Allocations		? ×
✓ Frequency Bends	▼ Region 1 ▼ Region 2 ▼ Region 3	Search
		Save Query
From MH2 * To	MHz +	💷 🆤 🚰 Open Query
	V Automatically	Reset
	Enlarge to b	bands union 😨 💥 Cancel
	C Reduce to t	bands intersection
✓ Radiocommunication Services		
() Ann	of the following relected	
Primary Services		
AERONAUTICAL RADIONAVIGATION-SATELL	ITE (airborne elect	
AMATEUR	ē	
BROADCASTING (sound) (complementary to BROADCASTING (sound) (digital audio)	BSS (sound)) (dig	
BROADCASTING SATELLITE	× ≼	
Secondary Services		
Aeropautical radionavination (radio altimete	rs) 👘 🚓 Amateur-satellite	
Amateur Amateur satellite (Fasth de smace)		
Amateur-satellite (space-to-Earth)	-	
Faith enforation-ratellite	* 🐳	
Apply deep smart upward search on Radiocomm	unication Services	
Apply deep shart downward search on Radiocon	imunication services	
y results		- 0
✓ Region 1 ✓ Region 2 ✓ Region 3	Page 🔘 🔘	Page 1/3 💌 💽 🔍 🔳
Region 1	Region 2	Region 3
<u>s. 7 000 - 7 100 kHz</u> <u>TEUR</u>	Hable: 7 000 - 7 100 kHz	Table: 7 000 - 7 100 kHz AMATEUR
TEUR-SATELLITE	AMATEUR-SATELLITE	AMATEUR-SATELLITE
itional: 7 000 - 7 050 kHz		
0	<u>5.140 5.141 5.141A</u>	<u>5.140 5.141 5.141A</u>
	Table: 14 000 - 14 250 kHz	Table: 14 000 - 14 250 kHz
v ola, Iraq, <u>Somalia, Toqo</u>	AMATEUR	AMATEUR
itional: 7 000 - 7 100 kHz	Table: 18 068 - 18 168 kHz	Table: 18 058 - 18 158 Lite
1	AMATEUR	AMATEUR
mobile	AMATEUR-SATELLITE	AMATEUR-SATELLITE
ekistan, Kyrqyzstan	3.139	
rnative: 7 000 - 7 050 kHz	Table: 21 000 - 21 450 kHz AMATEUR	Table: 21 000 - 21 450 kHz AMATEUR
Ð	AMATEUR-SATELLITE	AMATEUR-SATELLITE
	Table: 24 890 - 24 990 kHz	Table: 24 890 - 24 990 kHz
14 pt, Eritrea, Ethiopia, Guinea, Libya, Madaqascar, Niger	AMATEUR	AMATEUR
	AMATEUR-SATELLITE	AMATEUR-SATELLITE
<u>0 5.141 5.141A</u>	Table: 28 000 kHz - 29.7 MHz	Table: 28 000 kHz - 29.7 MHz
e: 14 000 - 14 250 kHz	AMATEUR-SATELLITE	AMATEUR-SATELLITE
TEUR	Table: 144 - 146 MHz	Table: 144 - 146 MHz
	AMATEUR	AMATEUR
E: 18 U06 - 18 108 KHZ	AMATEUR-SATELLITE	AMATEUR-SATELLITE
y results		
V Region 1 V Region 2 V Region 3	Page 🔕 🔇	Page 2/3 💌 💽 📵 💻 🔛
e: 5 000 - 5 725 PIN2	Table: 3 400 - 3 500 PIR2	140/0: 3 400 - 3 500 FINZ
IOLOCATION	FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)
RUT	MOBILE except aeronautical mobile 5.431A 5.431B	RADIOLOCATION 5.433
research (deep space)	RADIOLOCATION 5.433	Amateur
itional: 5 670 - 5 725 MHz	Additional (Regions 2, 2): 2,400 - 2,410 Min	Additional (Regions 7, 3): 2,400 - 2,410 MHz
*	enateur-satelite	Amateur-satelite
5		
enia, Azerbaijan, Belarus, Russian Federation, Georgia, gary, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan,	5.282	5.282
iama, rajukistan, rurkmenistan, Ukraine	Application (Region 2): 3 400 - 3 500 MHz	Application: 3 400 - 3 500 MHz
monar 5 650 - 5 725 MHz Inoble	LATTENNATIONAL PUBLLE TELECOMMUNICATIONS (IM	LITTERNATIONAL PUBLIC (ELECOMMUNICATIONS (IMT)]
	5.4318	5.432A
u l		Korea (Rep. of), Japan, Pakistan, Dem. People's Rep. of Korea
red Kingdom	5.282	Application: 3 400 - 3 500 MHz
itional: 5 650 - 5 725 MHz	Table: 5 650 - 5 725 MHz	[INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]
<u></u> BILE	PIOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION	<u>5.4328</u>
	Amateur	Kerguelen, New Caledonia, French Polynesia, Saint Paul and Amsterdam, Wallis and Futura
<u>53</u>	Space research (deep space)	Application: 3 400 - 3 500 AMP
di Arabia, Bahrain, Cameroon, Congo (Rep. of the), Côte roire, Diibouti, Egypt, United Arab Emirates, Eswatini, bon, Guinea, Equatorial Guinea, Teag, Tordan, Kowa	Additional (Regions 1, 2, 3): 5 650 - 5 670 MHz	[INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]
rait, Lebanon, Libya, <u>Madagascar</u> , Niger, Nigeria, <u>Oman</u> , anda, <u>Qatar</u> , Syrian Arab Republic, <u>Tanzania</u> , <u>Chad</u> , <u>Toqc</u>	(TAmateur-satelite (Earth-to-space)	
100	5.282	5.432B
Itional (Regions 1, 2, 3): 5 650 - 5 670 MHz Iteur-satellite (Earth-to-space)	Additional: 5 670 - 5 725 MHz	Indonesia, Iran (Islamic Republic of), Malaysia, Hew Zealand, Philippines, Singapore, Thailand
AND ADDRESS OF ADDRESS AND ADDRESS ADDRES	FIXED	Different Category of Services 2 400 - 2 500 MHz

3.3 Frequency bands for Earth Exploration-Satellite service

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• Similar actions can be taken, by specifying the Earth Exploration-Satellite service and all its components in the list of wanted services:

Query Ma	in Table Allocations			? ×
	V R	egion 1 🗸 Region 2 🗸 Region 3		Search
Frequency	Bands			Save Query
rom	MHz 🔻 To	MHz 💌		Dpen Query
		✓ Automati	cally merge overlapping bands	Reset
		Enlarge	e to bands union	🗶 Cancel
		Reduce	a to bands intersection	
Radiocom	nunication Services			
	Any of the fel	lawing colocted		
Primary Ser	vices	owing selected O Air of the following selected		
BROAD	CASTING-SATELLITE (sound) (digital audio)	A BARTH EXPLORATION-SATEL	LLITE (Earth-to-space)	
FIXED FIXED (a	aircraft flight safetv)	EARTH EXPLORATION-SATEL	LLITE (Earth-to-space) (tracking, te	
FIXED (1 FIXED (1	fixed wireless access systems) ground-to-HAPS)	EARTH EXPLORATION-SATEL	LITE (space-to-Earth) LITE (space-to-space)	
	around to HADS) (astoury links)	× 4		
Secondary	Services			
Fixed		🔺 💩 Earth exploration-satellite		
Fixed-s Land m	atellite (space-to-Earth) (beacon transmission obile	for up-lit Earth exploration-satellite (a Earth exploration-satellite (E	ctive) arth-to-space) (transfer of data be	
Land m Maritim	obile (applications ancillary to broadcasting ne mobile	and progr Earth exploration-satellite (p Earth exploration-satellite (s	Jassive) .pace-to-Earth)	
4 A	ne mohile (coast radiotelegranh stations)	Farth evploration-catellite (c	nace-to-snace) (telemetry trackin	
Apply de	eep smart upward search on Radiocommunication	Services		
 Apply de 	eep smart downward search on Radiocommunicat	on Services		
	Query results		- 0	×
	✓ Region 1 ✓ Region 2 ✓ Region 3	Page 🔘 🔘 Page 1/10		
	Region 1	Region 2	Region3	
	CARTH EXPLORATION-SATELLITE (Earth-to-space)	EARTH EXPLORATION-SATELLITE (Earth-to-space)	EARTH EXPLORATION-SATELLITE (Earth-to-space)	
	METEOROLOGICAL-SATELLITE (Earth-to-space)	HETEOROLOGICAL-SATELLITE (Earth-to-space)	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (Earth-to-space)	
	SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space-to-Earth)	
	Mobile except aeronautical mobile	Mobile except aeronautical mobile	Mobile except aeronautical mobile	
	5.264A 5.264B	<u>5.264A 5.264B</u>	<u>5.264A 5.2648</u>	
	Table: 402 - 403 MHz EARTH EXPLORATION-SATELLITE (Earth-to-space)	Table: 402 - 403 MHz [ARTH EXPLORATION-SATELLITE (Earth-to-space)	Table: 402 - 403 HHz EARTH EXPLORATION-SATELLITE (Earth-to-space)	
	METEOROLOGICAL-SATELLITE (Earth-to-space)	METEOROLOGICAL-SATELLITE (Earth-to-space)	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (Earth-to-space)	
	Exed Mobile except aeronautical mobile.	Exect Mobile except aeronautical mobile	Pixed Mobile except aeronautical mobile	
	5.264A 5.264B	<u>5.264A 5.2648</u>	5.264A 5.264B	
	Table: 432 - 438 MHz	Table: 432 - 438 MHz	Table: 432 - 438 MHz	
	RADIOLOCATION	ADDIOCATION	Amateur	
	Additional (Regions 1, 2, 3): 435 - 438 MHz	Earth exploration-satellite (active) 5.279A	Earth exploration-satellite (active) 5.279A Additional (Regions 1, 2, 3): 435 - 438 HHz	
	Amateur-satelite	Bmateur-satelite	Amateur-satelite	
	5.282	5.282	5.282	
- 1	Query results	AND COMPLETE AND A SHEET AND	C	1 ×
	▼ Region 1 ▼ Region 2 ▼ Region 3	Page 🔕 S Page 2/10	- 0 0 =	167 <u>-</u>
	5.384A	Table: 2 655 - 2 670 MHz BROADCASTING SATELLITE 5 413 5 416	Earth exploration-satellite (passive) Space research (passive)	-
	Alternative: 2 520 - 2 655 MHz	FIXED 5.410	5,339	
	MOBILE except aeronautical mobile	FIXED-SATELLITE (space-to-Earth) 5.415	Application (Regions 1, 2, 3): 2 535 - 2 655 MHz	
	LINTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)	Earth exploration-satelite (passive)	[INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]	
	5.412 Kyrgyzstan, Turkmenistan	Space research (passive)	5.384A	
	5.339 5.412 5.4188 5.418C	Application (Regions 1, 2, 3): 2 655 - 2 670 MHz [INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]	BROADCASTING (sound) (complementary to BSS (sound)) (digital audio)	
	Table: 2 655 - 2 670 MHz	5.3844	BROADCASTING-SATELLITE (sound) (digital audio)	-
	EXED 5.410		5.418 India	
	HOBILE except aeronautical mobile 5.384A	Table: 2 670 - 2 690 MHz	E 220 E 410 E 4100 E 4100 E 4100	_
	Radio astronomy Space research (passive)	FIXED 5.410 FIXED-SATELLITE (Earth-to-space) 5.2088 5.415	Table: 2 655 - 2 670 MHz	-
	Application (Regions 1, 2, 3): 2 655 - 2 670 MHz [INTERNATIONAL MOBILE TELECOMMUNICATIONS (INT)]	FIXED-SATELLITE (space-to-Earth) 5.2088 5.415 MOBILE except aeronautical mobile 5.384A	BROADCASTING-SATELLITE 5.2088 5.413 5.416 EIXED 5.410	
	5,3844	Earth exploration-satellite (passive)	EDED-SATELLITE (Earth-to-space) 5.415 MOBILE excent aeronautical mobile 5.384A	
	Alternative: 2 655 - 2 670 MHz	Space research (passive)	Earth exploration-satellite (passive)	
	FIXED MOBILE except aeronautical mobile	Application (Regions 1, 2, 3): 2 670 - 2 690 HHz [INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]	Space research (passive)	a
	[INTERNATIONAL MOBILE TELECOMMUNICATIONS (IMT)]	5.384A	Additional (Region 3): 2 655 - 2 670 MHz Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	
	5.412			v

• When the software determines a matching allocated frequency band due to the provisions of an RR5 footnote, the footnote number is displayed, leading to displaying the footnote text on click (below is the example of RR 5.561A for the Amateur-Satellite service)



3.4 To query for allocations to specific service

To query for allocations to specific service, one need to query the main table allocations and the footnotes separately.

To query the main table allocations, go to the Menu bar item Allocations to Service -> Query Main Table Allocations.



Query Main Table Allocations	2 🗸
Query Main Table Anocations	· · · ·
Region 1 Region 2 Region 3	Search
Frequency Bands	🔚 Save Query
From MH - To MH -	📖 🖶 📔 Open Query
✓ Automatically merge overlapping band	s 📄 🔗 Reset
Enlarge to bands union	Cancel
Reduce to bands intersection	
Radiocommunication Services	
Any of the following selected All of the following selected	
Primary Services	
AERONAUTICAL MOBILE AERONAUTICAL MOBILE (OR) AERONAUTICAL MOBILE (R) AERONAUTICAL MOBILE SATELLITE (R) 4 AERONAUTICAL MOBILE SATELLITE (R) 4 AE	o-spac to-Eart to-spa
Secondary Services	
Aeronautical mobile Aeronautical mobile (OR) Aeronautical radionavigation Amateur 4 Aeronautical radionavigation Amateur	e) h)
Apply deep smart unward search on Padiocommunication Services	
Apply deep smart downward search on Radiocommunication Services	
Footnotes References	
5.	
553	
5.54	
5.54 5.54A 5.54A	

Select the desired service in both primary and secondary services as shown below:

Click on "Search".

The relevant allocation table containing the desired service will be shown on a Query results screen. If you wish to export to PDF, click on the following:



To check also for allocations in a footnote, go to menu item Footnotes ->Query as shown below:



In the search footnotes screen, click on Find.

Search footnotes		?
Radiocommunication Region All Regions		Find
Administrations codes	Geographic areas and countries codes	Dpen Quer
AFG - Afghanistan AFS - South Africa AGL - Angola ALB - Albania ALG - Algeria	ABW - Aruba AFG - Afghanistan AFS - South Africa AGL - Angola AIA - Anguilla	Cancel
ply this query to		
Explicit country footnotes	Relevant country footnotes	
Modifications to the Main Table Allocations		
Additional Allocations Alternative Allocations Different Categories of Services	♦ 0 1 ∛	
Apply to footnotes concerning only Space Servi Apply to footnotes concerning only Terrestrial	ices Services	
Source of footnote		
WRC-1997 WRC-2000 WRC-2003		

In the resulting screen, check the box "Search footnotes text" -> enter name of service in the box.

✓ Search footnotes text		
Find		
All matching footnotes Only matching footnotes, used as conditional	Match case	×
Only matching footnotes, not used as conditional	Match whole word	•
earth exploration		

You can then export to an excel sheet all the footnotes that have the mentioned term "earth exploration-satellite service" by clicking on the icon below (or PDF if click on the PDF icon):



4 Acquiring the software

The software is available for download under the <u>ITU-R Publications web site</u>, or alternatively by contacting the ITU Sales (sales@itu.int). Upon purchase and download of the software, the user will be prompted to request a license -- on up to 3 separate personal devices -- prior to using the software. To upgrade to a 2-10 or organizational-wide license, please contact ITU Sales, separately. For any technical questions or support, post-purchase, please email <u>BR Tools Tech Support</u> with the description of the problem encountered.

5 Package updates

<u>Major releases</u> of the package correspond to the new editions of Radio Regulations. The current version (at the time of writing this Handbook) is associated with the **RR 2020** (as adopted by **WRC-19**) edition. A new license is required for every new major release (usually following the completion of each **WRC**).

<u>Between two major releases</u> (~4 years), the packages will be subject to updates concerning both data and software. These will be released freely to subscribers holding licensed packages.
