

Radiocommunication Bureau (BR)

Circular Letter CR/456

6 March 2020

To the Administrations of ITU Member States

Subject: WRC-19 decisions included in the Minutes of Plenary meetings

The World Radiocommunication Conference, Sharm el-Sheikh, 2019, (WRC-19), in adopting a partial revision of the Radio Regulations, took a number of decisions which do not appear in the Conference Final Acts, but are reflected in the minutes of WRC-19 Plenary meetings. The purpose of this Circular Letter is to gather and bring these decisions to the attention of administrations.

The Annex to this Circular Letter contains the compilation of the texts of these decisions, along with the references to the corresponding paragraphs in the documents containing the minutes of WRC-19 Plenary Meetings and to the documents for which agreement or endorsement of the Plenary was sought.

The Radiocommunication Bureau remains at the disposal of your administration for any clarification it may require with respect to the subjects covered in this Circular Letter.

Tais Tarriewicz

Mario Maniewicz Director

Annex: 1

Distribution:

- Administrations of ITU Member States
- Members of the Radio Regulations Board

ANNEX

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
Document <u>CMR19/237</u> – Minutes of the fourth Plenary	§§ 2.1 to 2.3 Approval of Document <u>201</u>	It was noted the information provided in § 3.4.1 of Addendum 2 to the Report of the Director (Doc. CMR19/4) to WRC- 19 that all examinations of frequency assignments to terrestrial services and the identification of potentially affected administrations currently performed by the Bureau in the application of various RR and Regional Agreement procedures are made using propagation prediction models without terrain height profiles.
meeting		It was recognized that the use of terrain height data for the identification of potentially affected administrations could be beneficial to administrations and such an approach would shorten the list of coordination requirements and reduce the coordination burden both for administrations and the Bureau.
		Given the above considerations, it was proposed to instruct the Bureau to simulate the examination of RR No. 9.21 notices in the non-planned bands using digital elevation models (DEM) and report the results to the Radio Regulations Board. The Board could subsequently decide, through the relevant Rules of Procedure, that the Bureau should use terrain height data in the RR No. 9.21 examinations, and to report on the results to the next WRC.
		Bearing in mind that the currently available Shuttle Radar Topography Mission dataset with a resolution of one arc second in longitude and latitude (SRTM1) does not extend north of 60 degrees North and south of 56 degrees South, the Bureau could be further instructed to continue the examination of terrestrial stations located outside this geographical extent without the use of terrain height information and to explore the possibilities to utilize alternative digital elevation models with a larger geographical extent.
	§§ 5.1 to 5.8 Approval of Document 189	Before the expiry of the deadline referred to in this document, the Radiocommunication Bureau shall send a message to the administrations concerned drawing their attention to the need to reply within the deadline as contained in the document.

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
Document <u>CMR19/469</u> – Minutes of the sixth Plenary meeting	§§ 2.4 to 2.13 Approval of Document <u>228</u>	 WRC-19 instructs the Radiocommunication Bureau to apply the following principles when processing notifications of frequency assignments to 'IMT' stations: a) Assignments to base stations in frequency bands identified for IMT in the country submitting the notice can be notified with the nature of service 'IM'*.
		b) Assignments to base stations in frequency bands allocated to the mobile service, but not identified for IMT in the country submitting the notice, can be notified with the nature of service other than 'IM'. If in this case assignments to base stations are notified with the nature of service 'IM', the notice shall be returned to the notifying administration.
		 The symbol 'IM' designates IMT stations in the mobile service, as explained in Circular Letter CR/391 of 26.02.2016. The Director of BR provided the following clarification: the objective of the text dealing with the treatment by the Radiocommunication Bureau of the notification of "IMT" stations was that administrations could notify assignments as "IM" only in the case of base stations in frequency bands that had been identified for IMT in the country. Otherwise,
	§§ 2.14 to 2.16 Approval of Document <u>232</u>	the assignments could only be notified as "other than IM". Based on the information provided in § 3.1.3.5 of Addendum 2 to the Report of the Director it was noted that the Bureau identifies the coordination requirements for the assignments to terrestrial services vis-à-vis typical earth stations of the broadcasting-satellite service under RR No. 9.19 in eight frequency bands, namely 620-790 MHz, 1 452- 1 492 MHz, 2 310-2 360 MHz, 2 520-2 670 MHz, 11.7-12.75 GHz, 17.7-17.8 GHz, 40.5-42.5 GHz and 74-76 GHz.
		2 It was further noted that currently the coordination triggers are available only for the band 11.7-12.7 GHz, as contained in Annex 3 of RR Appendix 30 . For all other bands the Bureau uses the Rules of Procedure on RR No. 9.19 establishing the criteria for coordination as a frequency overlap and the coordination distance of 1 200 km with respect to the territories on which typical BSS earth stations are located. It was recognized that 1 200 km would be a very conservative coordination distance that might overestimate real needs for coordination and result in a considerable coordination burden for the administrations.

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		 The relevant ITU-R Study Groups are invited to develop more specific criteria for establishing coordination requirements under RR No. 9.19 in the bands 620-790 MHz¹, 1 452-1 492 MHz, 2 310-2 360 MHz, 2 520-2 670 MHz, 17.7-17.8 GHz, 40.5-42.5 GHz and 74-76 GHz. In addition, the Bureau is invited, when the coordination triggers are available, to simulate the examination of RR No. 9.19 notices in the non-planned bands using digital elevation models (DEM) and report the results to the Radio Regulations Board for further actions.
	§§ 2.20 to 2.22 Approval of Document <u>293</u>	Noting the exceptional circumstances encountered by the Administration of Slovenia in bringing into use the NEMO- HD satellite network, WRC-19 decided to exclude the assignments of this satellite network, which are recorded in the Master Register (see Part II-S contained in BR IFIC 2832), from the application of e.i.r.p. limits in the frequency band 401-403 MHz contained in RR No. 5.C12 until 22 November 2029 and instructed the Radiocommunication Bureau to act accordingly
	§§ 2.23 to 2.26 Approval of Document <u>289</u>	As a result of the suppression of Resolution 556 (WRC-15) , the Bureau is instructed to continue to apply the current calculation method in regard to analogue assignment in the Region 2 Plan.
Document <u>CMR19/568</u> – Minutes of the seventh Plenary meeting	§§ 4.1 to 4.4 Approval of Document <u>303</u>	Instructions to the Radiocommunication Bureau in application of revised Annex 7 to RR Appendix 30 and associated Resolutions Application of the revised orbital limitations applicable to broadcasting satellites serving an area in Region 1 and using a frequency in the band 11.7-12.2 GHz
		When, under Article 4 of RR Appendix 30 , an administration of Regions 1 and 3 submits to the Bureau a new satellite network with frequency assignments in the band 11.7-12.2 GHz, serving an area in Region 1 from the West and occupying a nominal orbital position further west than 37.2° W, the frequency assignments of this satellite network

¹ Note by the BR: this frequency band is no longer subject to No. **9.19**, as a result of suppression of **No. 5.311A** and Resolution **549 (WRC-07)**

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		shall be deemed receivable only if a portion of land located in the western part of Region 1 as determined by the relevant software application of the Radiocommunication Bureau (excluding any territory with special status (e.g. Antarctica)) is visible from the nominal orbital position of that satellite network (i.e. the elevation angle is greater than 5 degrees). Otherwise the Bureau shall return those assignments to the notifying administration.
		2 Application of the revised orbital limitations applicable to broadcasting satellites serving an area in Region 2 and using a frequency in the band 12.2-12.7 GHz
		When, under Article 4 of RR Appendix 30 , an administration of Region 2 submits to the Bureau a new satellite network with frequency assignments in the band 12.2-12.5 GHz (resp. 12.5-12.7 GHz), serving an area in Region 2 from the East and occupying a nominal orbital position further east than 44° W (resp. 54° W), the frequency assignments of this satellite network shall be deemed receivable only if a portion of land located in the eastern part of Region 2 as determined by the relevant software application of the Radiocommunication Bureau (excluding any territory with special status (e.g. Antarctica)) is visible from the nominal orbital position of that satellite network (i.e. the elevation angle is greater than 5 degrees). Otherwise the Bureau shall return those assignments to the notifying administration.
		3 Application of Resolution COM5/2 (WRC-19)
		<i>Resolves</i> 2 of Resolution COM5/2 (WRC-19) indicates that identification of frequency assignments of certain networks associated to 40-cm and 45-cm earth station antenna diameters are based only on EPM and a minimum orbital spacing less than 9 degrees. This <i>resolves</i> only applies in the frequency band 11.7-12.2 GHz. The HISPASAT-37A satellite network included in Annex 1 of this Resolution contains frequency assignments, which partially overlap with the frequency band 11.7-12.2 GHz. For the protection of such assignments from non-planned satellite networks, the criteria contained in Resolution COM5/4 (WRC-19) shall be applied however, for the protection of these assignments from new submissions under Article 4 that are subject to Resolution COM5/2 (WRC-19) , the criteria contained in <i>resolves</i> 2 of this Resolution shall be used.

Application of new Resolution COM5/3 (WRC-19)

4

a) Resolves 2 on the date of receipt of submissions

Submissions referred to in *resolves* 2 shall have a common date of receipt of 21 May 2020. The formal date of receipt and the date of protection shall be 21 May 2020 if the submissions are complete. If the submissions are incomplete and a reply to the Bureau's telefax seeking for missing information is received on or before 21 May 2020, the formal date of receipt and the date of protection shall be 21 May 2020. If the reply to the Bureau's telefax is received after 21 May 2020, the date of protection shall be the same as the formal date of receipt established in accordance with the Rule of Procedure on the receivability of the notice. The established date of protection shall be used for the Bureau's examination under relevant provisions of RR Appendices **30** and **30A**. For submissions with the same formal date of receipt, the Bureau shall mutually take them into account in its technical and regulatory examination.

b) Resolves 3 on the date of receipt of submissions

Submissions referred to in *resolves* 3 (i.e. submissions under § 4.1.3 of RR Appendix **30** in the frequency bands 11.7-12.5 GHz and feeder-links assignments in the frequency bands 14.5-14.8 GHz and 17.3-18.1 GHz of RR Appendix **30A**) at an orbital position of orbital arcs for which the limitations of Annex 7 to RR Appendix **30 (Rev.WRC-15)** were suppressed by WRC-19 and not meeting the specified requirements in § 1 of the Attachment to that Resolution, shall have a common date of receipt of 22 May 2020. For those submissions, the date of protection shall be the same as the formal date of receipt established in accordance with the Rule of Procedure on the receivability of the notice. The established date of protection shall be used for the Bureau's examination under relevant provisions of RR Appendices **30** and **30A**. For submissions with the same formal date of receipt, the Bureau shall mutually take them into account in its technical and regulatory examination.

c) Submissions under § 4.1.12 of RR Appendix 30/30A of the satellite networks applying that Resolution

During the frequency coordination, the notifying Administration may change the beam from elliptical to shaped. Therefore, the Bureau shall accept submissions of satellite networks applying that Resolution and containing a shaped beam under § 4.1.12 of RR Appendices **30** and **30A**, if the characteristics of the submission under § 4.1.12 are within the envelope of the characteristics of submission under § 4.1.3.

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		5 Calculation of the minimum geocentric orbital separation referred to in <i>resolves</i> 1 and 2 of Resolution COM5/4 (WRC-19)
		When calculating the minimum geocentric orbital separation between the wanted and interfering space stations, the Bureau shall take into account the East-West station-keeping accuracies of the FSS and BSS space stations so that the two space stations are the closest.
		6 In relation with the specific case of the Administration of South Sudan, which currently does not have any frequency assignments in the Plans of RR Appendices 30 and 30A , WRC-19 decided that the Administration of South Sudan may apply Resolution COM5/3 (WRC-19) and instructed the Radiocommunication Bureau to accept such submission from the administration of South Sudan.
	§§ 4.5 to 4.7	Space research allocation in 14.5-14.8 GHz
	Approval of Document <u>338</u>	Having discussed Section 3.1.2.4 of Document 4 (Add.2), Committee 5 concluded that the Conference should instruct the Director of the Radiocommunication Bureau to monitor the use of the space research allocation in the frequency band 14.5-14.8 GHz, and should invite ITU-R to study the evolution of the technical parameters of systems in the space research service and the associated sharing environment of the same frequency band.
	§§ 13.1 to 13.7 Consideration of Document <u>238</u>	13.1 The delegate of Egypt introduced Document 238, which contained a request relating to the Egyptian satellite Nilesat 301, which was to be located at orbital position 7°W before 19 March 2022, the deadline for bringing into use the frequency assignments of filing EGY-N-SAT. Although confident that it would be able to meet that deadline, the Egyptian Administration was concerned that any unexpected mishaps leading to delays beyond its control could affect the timely launch of the satellite. It therefore requested the conference to grant a six-month extension of the time- limit to 19 September 2022.
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		13.6 The Chairman took it that the conference wished to approve the request of the Egyptian Administration.
		13.7 It was so agreed.

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Document <u>CMR19/569</u> – Minutes of the eighth Plenary meeting	§§ 3.4 to 3.7 Approval of Document <u>344</u>	WRC-19 received Document 92(Add.21) addressing concerns with ongoing uplink interference being experienced by two GSO MSS satellite networks in the frequency band 2 670-2 690 MHz. This issue was also included in Part 1 of the Director's Report (Document 4(Add.1), Annex 2, § 2.3.2) and was discussed during the Radiocommunications Assembly 2019 (RA-19). The result of the discussion at RA-19 was an acknowledgement of the concern raised regarding the difficulties being currently faced with continuing incompatibility between MSS and MS, and an invitation to WRC-19, to take necessary actions it deems appropriate, with a view to accelerate the satisfactory resolution of the problem.
		WRC-19 acknowledged the urgency of the issue, given the ongoing interference being experienced. It also considered possible revisions to Resolution 225 (Rev.WRC-12) intended to draw particular attention to this issue. While the proposed revision was not agreed, WRC-19 agreed to invite the ITU-R to focus efforts on accelerating the sharing studies such that the development of appropriate ITU-R Recommendation(s) and/or Reports providing technical and operational measures for the coexistence of the mobile-satellite service and terrestrial component of IMT in the frequency band 2 655-2 690 MHz are completed during the next study cycle, i.e. by 2023.
	§§ 3.8 to 3.10 Approval of Document <u>347</u>	In accordance with WRC-19 agenda item 9.3, the Conference received Document 15 from the Radio Regulations Board entitled <i>Report by the Radio Regulations Board on Resolution 80 (Rev.WRC-07)</i> . This report summarized RRB activity in relation to Resolution 80 (Rev.WRC-07), "Due Diligence in Applying the Principles Embodied in the Constitution." In the Report to WRC-19, the Board provided an update to the report to WRC-15 focusing on its efforts to address issues the Board and the Radiocommunications Bureau have faced since WRC-15 affecting fulfilment of the principles contained in Article 44 of the ITU Constitution (CS) and No. 0.3 of the Preamble to the Radio Regulations. The Board report says, in part, the following: "the Board considered concerns raised by some administrations regarding the appropriateness of other administrations' application of Article 48 of the ITU Constitution. The alleged cases of non- compliance with CS Article 48 that were presented to the Board were summarized as follows:
		 Administrations invoking CS Article 48 after the Bureau has launched an investigation under RR No. 13.6 as a means to prevent its application and retain rights in the Master International Frequency Register. Administrations invoking CS Article 48 for frequency assignments that are not used for military purposes." In response to the content of this Board Report, the Conference received several contributions from administrations that included various actions to be considered by the Conference to address the concerns raised by administrations,

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		however it was understood that none of these various actions could be implemented without specific instruction from a Plenipotentiary Conference to a WRC to do so.
		Taking into account the report of the Board on Resolution 80 (Rev.WRC-07) , and the contributions and comments at WRC-19 associated with that Report, the WRC-19, in accordance with Article 21 of the ITU Convention, invites the 2022 Plenipotentiary Conference to consider the question of invocation of CS Article 48 in relation to the Radio Regulations raised at WRC-19 and take necessary actions, as appropriate.
		In addition to this result, WRC-19 instructed the Bureau to continue their current practice of responding to specific requests from administrations related to the status of individual satellite networks, including an indication of whether CS Article 48 has been invoked for a satellite network.
	§§ 3.11 to 3.15	In accordance with WRC-19 agenda item 9.2, the Conference received Addendum 2 to Document 4 from the Director,
	Approval of Document <u>451</u>	Radiocommunication Bureau entitled 'Report of the Director on the activities of the radiocommunication sector, Part 2.' This report summarized the experience in the application of the radio regulatory procedures and other related matters. Document <u>351</u> compiled the results achieved by WRC-19 in considering the Report of the Director.
		In considering section 3.1.2.1 on 'Coordination requirement under RR No. 9.7 for an inter-satellite link of a geostationary space station communicating with non-geostationary space station, as referred to in RR No. 5.328B ', in order to fulfil the requirements of RR No. 5.328B and of § 6.4 of the Rule of Procedure relating to RR No. 11.32 , WRC-19 instructs the Bureau to establish coordination requirements for such link of a GSO station based on frequency overlap similar to that of a non-GSO station until such time as some other criteria or method is established.
		In considering section 3.1.3.4 on 'Draft CR/D database made available in BR IFIC before publication of CR/D in accordance with RR No. 9.53A' , WRC-19 instructs the Bureau to cease its current practice of creating a draft CR/D.
		In considering section 3.1.4.2 on 'Coordination status of a satellite network during examination under RR Nos. 11.32 and 11.32A ', WRC-19 supports the Bureau's development of the software tools described in this section of the Director's Report and confirms that the tools described will meet the needs of administrations in communicating coordination status in relation to an affected administration.
		WRC-19 instructs the Bureau, when carrying out examination under RR No. 11.32A to also take into account coordination agreement status with satellite networks of affected administrations at notice level when such

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		information is provided, so that the notifying administration may benefit from the coordination agreements already obtained.
		WRC-19 decided to modify relevant parts of RR Appendix 4 in order to enable such examination.
		In considering section 3.1.4.3 on 'Possible revision to the implementation of RR No. 11.47 with respect to provisional recordings', WRC-19 decided upon the second option of two options raised in this section were preferred to address the issue as follows:
		The Bureau is instructed to automatically extend the foreseen dates of bringing into use in the database to the end of the regulatory period established under RR No. 11.44 if no confirmation has been received by the Bureau within four months from the foreseen date of bringing into use: no publication will be issued for this revision of the date of bringing into use, but this information will be visible on the BR website. This option does not require any change in the current Radio Regulations.
		In considering section 3.1.7.1 on 'Power flux-density (pfd) limits in RR Article 21 applicable to the mobile-satellite service in the frequency band 40-40.5 GHz', WRC-19 decided to reinstate the missing mention to mobile-satellite service in the frequency band 40-40.5 GHz in RR Table 21-4 and to have this change to Table 21-4 come into force as of 23 November 2019. In addition, WRC-19 decided to instruct the Bureau not to review the MSS frequency assignments already published at the time this reinstatement comes into force.
		In considering section 3.1.7.2 on 'Scaling factor in the definition of RR Article 21 pfd limits applicable to non-GSO satellite systems in the fixed-satellite service in the frequency band 17.7-19.3 GHz', WRC-19 invites ITU-R to study the appropriateness of the equations contained in RR No. 21.16.6 for large non-GSO satellite systems (e.g. such as those having more than 1 000 satellites). The results of the studies can be considered by WRC-23 under standing agenda item 7 if an Issue under this agenda item has been included in the CPM-23 report. WRC-19 also instructs the Radiocommunication Bureau to issue qualified favorable findings under RR Nos. 9.35/11.31 when examining compliance of frequency assignments to non-GSO FSS satellite systems with RR Article 21 pfd limits applicable in the frequency band 17.7-19.3 GHz if the notifying administration requests it to do so. Such practice shall apply to non-GSO FSS satellite systems for which coordination requests have been received from 23 November 2019 until the last day of WRC-23.

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		In considering section 3.2.5.6 on 'Grid points at sea in the examination using the methods of Annex 4 of RR Appendix 30B ', WRC-19 decided that only grid points that are located on land and inside the service area should be considered in addition to test-points in application of paragraph 2.2 of Annex 4 to Appendix 30B . In taking this decision WRC-19 acknowledged that, should the use of Appendix 30B expand beyond its current use, it may be necessary to reconsider this decision in the future. WRC-19 also decided that test-points at sea shall not be taken into account by the Radiocommunication Bureau in its technical and regulatory examination of the relevant submissions received by the Bureau.
		In considering section 3.3.1 on 'Resolution 49 (Rev.WRC-15) ', WRC-19 decided to invite ITU-R to study the issue of requiring updates to the Resolution 49 (Rev.WRC-15) data on an ongoing basis and streamlining the submission of Resolution 49 (Rev.WRC-15) data.
		In considering section 3.4.2 on 'Typical earth stations in the fixed-satellite service', WRC-19 instructs the Bureau to terminate the collection of information on typical earth stations in the fixed-satellite service.
		In considering section 3.4.3 on 'Excessive parameters', WRC-19 invites the ITU-R to review the parameters discussed in this section of the Report in the next study cycle and to provide any necessary guidance to the Bureau.
	§§ 3.16 to 3.18 Approval of Document 452	In accordance with WRC-19 agenda item 9.3, the Conference received Document 15 from the Radio Regulations Board entitled <i>Report by the Radio Regulations Board on Resolution</i> 80 (Rev.WRC-07) . This report summarized RRB activity in relation to Resolution 80 (Rev.WRC-07) .
	<u></u>	In considering section 4.2 of this report on 'Linkage between bringing into use and notification for recording in the MIFR', WRC-19 decided that, in cases where:
		a) the information related to the bringing into use of frequency assignments in RR Appendices 30 , 30A or 30B is submitted prior to the end of examination of Part B and notification submissions of these frequency assignments;
		b) the requirements of RR Nos. 11.44 and 11.44B have been met for these frequency assignments prior to the end of examination of their Part B and notification submissions;

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		<i>c)</i> after the fulfilment of the requirements of RR No. 11.44B , the satellite has been relocated to another orbital location prior to the end of examination of the notification submission of these assignments;
		d) the examination of the Part B submission of these assignments leads to the notice being returned to the notifying administration because of an inadvertent error of the notifying administration;
		<i>e)</i> the notifying administration informs the Bureau that it is unable to fulfil the requirements of RR Nos. 11.44 and 11.44B at the time of resubmitting the Part B and notification information;
		the Radio Regulations Board is instructed to consider, on a case-by-case basis, whether the fulfilment of the requirements of RR Nos. 11.44 and 11.44B prior to the end of examination of their Part B and notification submissions can be accepted as the bringing into use of the frequency assignments.
		In considering section 4.3 of this report on 'Issues related to the extension of time-limits for bringing into use or bringing back into use a frequency assignment':
		On section 4.3.4 Situations of co-passenger delay', WRC-19 decided that the Board shall consider the provision of the following information as required when dealing with a request for extension of regulatory deadlines due to co-passenger delay:
		 a summary description of the satellite to be launched, including the frequency bands;
		 the name of the manufacturer selected to build the satellite and the contract signature date;
		 the status of the satellite construction, including the date it began and whether it was expected to be completed prior to the initial launch window;
		 the name of the launch service provider and the contract signature date;
		 the initial and revised launch window;
		 sufficient detail to justify that the request for extension is due to co-passenger delay (e.g. a letter from the launch service provider indicating that the launch is delayed because of a delay affecting the co-passenger satellite);
		 sufficient detail to justify the length of the requested extension period; and
		 any other relevant information and documentation.

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		On section 4.3.5 'Compliance with the regulatory time limits for space stations using electric propulsion', WRC-19 decided to invite the ITU-R to study whether the use of electric propulsion satellite technology should be taken into account in the Radio Regulations for consideration at a future competent WRC.
		When considering requests that qualify as <i>force majeure</i> or co-passenger delay, WRC-19 instructs the RRB to continue to take into account the use of electric propulsion on a case-by-case basis when deciding on the length of the extension, based on the merits of each individual case.
		On section 4.3.6 'Requests from developing countries that do not qualify as <i>force majeure</i> or co-passenger delay', WRC- 19 invites the ITU-R to study the matter of requests for extensions of regulatory time limits from developing countries that do not qualify as <i>force majeure</i> or co-passenger delay and to develop the specific criteria and conditions upon which the RRB could consider granting an extension of the regulatory deadline to a developing country.
		In considering section 4.4 of this report on 'Requests for a transfer or change of the "notifying administration" from one to the other', WRC-19 confirmed the approach so far used by the Board for treating cases of the change of notifying administration acting on behalf of an intergovernmental satellite organization for a satellite network of that intergovernmental organization, to an administration which is a member of that organization acting on its own behalf. WRC-19 further decided that a letter from an appropriate responsible authority of this intergovernmental satellite organization is required to confirm their agreement with the change of notifying administration. In addition, WRC-19 decided that the Board shall deny a request to change:
		 the notifying administration acting on behalf of an intergovernmental satellite organization for a satellite network of that intergovernmental organization, to an administration that is not a member of that organization;
		 the notifying administration, acting on its own behalf, of a satellite network or system to another notifying administration acting on its own behalf; or
		 the notifying administration acting on behalf of a group of named administrations which is not an intergovernmental satellite organization to another administration of that group.

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		In considering section 4.5 of this report on 'Interpretation of the definition of "satellite network" in RR No. 1.112 and RoP No. 1.112 ', WRC-19 decided that the issue raised in this section of the report was addressed directly under WRC-19 agenda item 7 Issue H.
	§§ 3.19 to 3.21 Approval of Document <u>471</u>	In interpreting Resolution 750 (Rev.WRC-15) , resolves 1 and Table 1-1 of this resolution referred to mandatory limits while resolves 2 and Table 1-2 of this resolution referred to non-mandatory limits.
Document <u>CMR19/571</u> – Minutes of the tenth Plenary meeting	§§ 2.4 to 2.15 Approval of Document <u>518</u>	 WRC-19 received several documents containing requests from notifying administrations regarding regulatory treatment for specific satellite networks. The results of WRC-19 consideration of those requests is shown below. Requests for WRC decisions on specific satellite network filings <i>Request for ASIASAT-AK, ASIASAT-AK1 and ASIASAT-AKX satellite networks</i> WRC-19 considered the specific request made by China in Document 28(Add.22) regarding the validity of certain C-and Ku-band assignments to the Chinese satellite networks ASIASAT-AK, ASIASAT-AK1 and ASIASAT-AKX. After considering the content of Document 28(Add.22) and the particular issues raised therein, WRC-19 decided to accede to the request contained in Document 28(Add.22) and consequently instructed the Radiocommunication Bureau to maintain in the Master International Frequency Register the frequency assignments to the ASIASAT-AK1 and ASIASAT-AK3

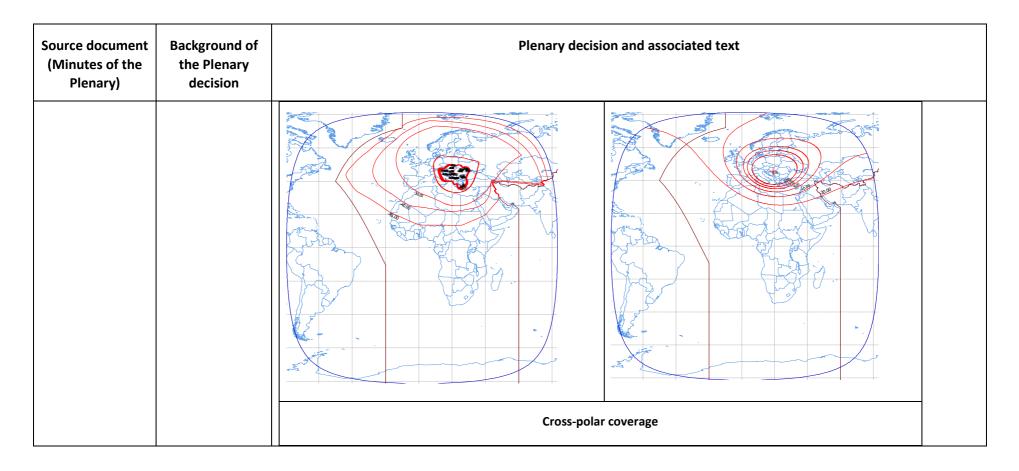
Source document (Minutes of the Plenary)	Background of the Plenary decision					ext	
			Satellite Network	Long	Min Freq (MHz)	Max Freq (MHz)	
			ASIASAT-AK	122°E	6 425	6 723	
			ASIASAT-AK	122°E	10 950	11 197	
			ASIASAT-AK	122°E	11 453	11 700	
			ASIASAT-AK1	122°E	12 200	12 250	
			ASIASAT-AKX	122°E	6 425	6 725	
			ASIASAT-AKX	122°E	10 953	11 200	
			ASIASAT-AKX	122°E	11 450	11 699	
			ASIASAT-AKX	122°E	13 753	14 000	
		the INTELSAT8 328.5 11 197.98-11 198.03 M particular issues raise maintain the above-m Request for inclu WRC-19 considered th 30A Plans of 10 assig current Plans at 1.2° M	ne specific request in D E and INTELSAT9 328 MHz. WRC-19 decided ed in the document. Mentioned frequency as usion in the RR Appen replacement of Bulga me specific request in D gnments at orbital pos <i>N</i> , pursuant to paragra	Oocument 4 3.5E satellit d to accede WRC-19 c ssignments dix 30 and aria's assign Oocument 4 sition 1.9° 1 oph 4.1.27 c	6(Add.22) regarding e networks in the e to the specific re- consequently instru- in the Master Intern 30A Plans of 10 assi mments appearing in (Add.2) to conside E, in replacement of Article 4 of RR Ap	frequency bands 10 quest made in that cted the Radiocomr national Frequency R gnments at orbital p n the current Plans a er the inclusion in the f Bulgaria's assignm pendices 30 and 30 <i>A</i>	oosition 1.9° E, in

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text				
		of the RR Appendix 30 Article 4 filing for BSS cha decided to accede to the request.	nnels in the band 11.7-12.2 G	Hz at the orbital position 1.9 $^\circ$	E, WRC-1	
		WRC-19 instructs the Radiocommunication Burd and BSS feeder-link channels 1, 2, 3, 4, 5, 6, 7, Administration of Bulgaria. Once the inclusion H current Plan assignments at 1.2° W of the Admir frequency assignments corresponding to the abo Register of the BULSAT-BSS-1.2W-W satellite ne	8, 17 and 18 with the charan has been finished, the Radioo histration of Bulgaria in the Ap ove-mentioned 10 channels in	cteristics listed in Table 1 bel communication Bureau shall r opendices 30 and 30 Plans and the List of additional use and	low for th emove th I cancel th	
		List of characteristics of the new RR Append	lix 30 and 30A Plan assignmen	ts for the Administration of Bu	lgaria	
		Parameter	Downlink	Feeder-link		
		Orbital position	1.	9°E		
		Station keeping (East-West)	0.	05°		
		Beam identification	BUL	02000		
		Date of receipt	23.1	1.2019		
		Date of protection	19.03.2012	04.11.2010		
		Satellite beam name	E	001		
		Веат Туре	Sha	aped		
		Beam Type Maximum co-polar antenna gain	33.8 dBi	aped 36.5 dBi		
				•	-	
		Maximum co-polar antenna gain	33.8 dBi	36.5 dBi 0 dBi wnlink beam and the CER	-	

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text				
		Service area	National territory defined as "BUL" in the GIMS software application			
		Test-points	Longitude (deg. E)	Latitude (deg. N)		
			27.91	42.06		
			28.47	43.70		
			25.28	41.35		
			22.40	42.30		
			23.01	41.44		
			22.69	44.17		
		Maximum input power	13.7 dBW	18.8 dBW		
		Maximum input power density	-61.5 dBW/Hz	–56.4 dBW/Hz		
		Earth station antenna gain	33.5 dBi ²	57 dBi		
		Earth station antenna diameter	0.6 m	5 m		
		Earth station antenna pattern	MODRES	MODTES		
		Earth station 3dB beam width	2.86°	0.25°		
		10 channels	1, 2, 3, 4, 5, 6, 7, 8, 17, 18	1, 2, 3, 4, 5, 6, 7, 8, 17, 18		
		Bandwidth per channel	33 MHz	33 MHz		
		Polarization	Odd linear 0° Even linear 90°	Odd linear 0° Even linear 90°		
		Designation of emission	33M0G7W	33M0G7W		
		Power control		3 dB		

² Note by the BR: Documents CMR19/518 and CMR19/571 contain a typographical error concerning this value, which should read 35.5 dBi instead of 33.5 dBi as the antenna diameter is 0.6 m.

Source document (Minutes of the Plenary)	Background of the Plenary decision		Plenary decision	and associated text	
		Automatic gain control			15 dB
		Noise temperature			600 K
		Exclusive operation grou	p code	E5	E5
		The relevant		BSS-1.2W-W satellite network	in which
		The relevant Satellite name		ments are to be cancelled Special Section (Part B)	Beam
		Satellite name	the frequency assignr Orbital position	ments are to be cancelled Special Section (Part B) AP30/E/599	
			the frequency assignm	ments are to be cancelled Special Section (Part B)	Beam
		Satellite name	the frequency assignr Orbital position	ments are to be cancelled Special Section (Part B) AP30/E/599	Beam CEED
		Satellite name	the frequency assignm Orbital position 1.9° E	ments are to be cancelled Special Section (Part B) AP30/E/599	Beam CEED CER



Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text		
		Request for INSAT-EXK82.5E satellite network WRC-19 considered the specific request made by India in Document 92(Add.22) regarding the extension of the regulatory period for bringing into use the INSAT-EXK82.5E satellite network. Considering the particular issues raised in the document, WRC-19 decided to accede to this request and consequently instructed the Radiocommunication Bureau: 1 to consider the regulatory period for bringing into use the frequency assignments to the INSAT-EXK82.5E satellite network to be extended from 30 March 2017 to 30 June 2017;		
		2 to record the date of bringing into use of these frequency assignments as 30 June 2017;		

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text		
		3 to record the date of suspension of these frequency assignments under 8.17 of Article 8 of Appendix 30B as 3 January 2018 (so that the 3-year suspension period referred to in this provision ends on 3 January 2021);		
		4 to process the Part B and notification of these frequency assignments with a formal date of receipt of 22 November 2019.		
		Request for KYPROS-SAT-3 (39° E) satellite network		
		WRC-19 considered the specific request made by Cyprus in Document 48(Add.22) regarding the bringing into use of the KYPROS-SAT-3 satellite network at the 39° E orbital location. Having successfully addressed initial concerns raised with this request, WRC-19 exceptionally agreed to set the date of bringing into use of the frequency assignments to the KYPROS-SAT-3 satellite network as 7 March 2016. WRC-19 noted that these frequency assignments were subsequently suspended as of 6 June 2016 and brought back into use within the 3-year period set forth in No. 11.49 .		
		Request for PALAPA-C1-B (113°E) satellite network		
		WRC-19 considered the specific request made by Indonesia in Document 35(Add.25) regarding the extension of the regulatory time-limit for bringing into use frequency assignments to the PALAPA-C1-B (113°E) satellite network in the frequency bands: 11 452-11 678 MHz, 12 252-12 532 MHz, 13 758-13 984 MHz, 14 000-14 280 MHz from 6 August 2019 to 31 July 2020. WRC-19 agreed to accede to this limited time extension request, having confirmed that all frequency coordination activities requested by other administrations during WRC-19 had been completed for this satellite network.		
	§§ 10.2 to 10.4 Approval of	Understanding of the Radiocommunication Bureau of <i>resolves</i> 11 and Annex 2 of Resolution [7(A)-NGSO-MILESTONES] (WRC-19)		
	Document <u>499</u>	The Bureau notes that Resolution [7(A)-NGSO-MILESTONES] (WRC-19) , including its Annex 2, does not supersede the proper application of the provisions of RR Article 9 of the Radio Regulations, in particular RR No. 9.6 (initiation of the coordination process), RR Nos. 9.50 to 9.52 and 9.52C (action upon a request for coordination) and RR No. 9.53 (mutual efforts by the requesting and responding administrations to overcome the difficulties).		

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
		This set of provisions creates a balanced framework where both the requesting and responding administrations perform a series of acts that constitutes the bilateral coordination process:
		 the requesting administration starts the process;
		 the responding administration replies to this request by either giving its agreement or indicating its disagreement together with information concerning its assignments upon which the disagreement is based and suggestions as it is able to offer with a view to a satisfactory resolution of the matter;
		 both administrations make every possible mutual effort to overcome the difficulties, in a manner acceptable to the parties concerned.
		Therefore the Bureau understands that notifying administrations, when providing, <i>inter alia</i> , item 3 of Annex 2 to Resolution [7(A)-NGSO-MILESTONES] (WRC-19) pursuant to <i>resolves</i> 11 of this Resolution, will have to report on the status of coordination and on efforts made in the coordination with satellite systems or networks identified under the relevant provisions of Section II of RR Article 9 .
		Notifying administrations may also include under this item 3 information about coordination activities with later filed satellite systems or networks that they are aware of, which the Bureau understands as beneficial for an administration requesting the application of <i>resolves</i> 11. The Bureau notes that it is materially impossible for such an administration to include information related to cases where the requesting administration has not initiated contacts with a view to start detailed technical and operational discussions in advance of the submission of the report request under item 3.
		The Bureau finally understands that, by adopting <i>resolves</i> 11 and Annex 2 of Resolution [7(A)-NGSO-MILESTONES] (WRC-19) , WRC-19 decided to establish a transparent process that will be open for comments: any administration disagreeing with the content of a report provided under item 3 of Annex 2 of this Resolution will have the opportunity to submit its views to the Radio Regulations Board and the administration having submitted the report will have the opportunity to provide its clarification on the matter. The RRB will take into account this information when implementing <i>resolves</i> 11 <i>b</i>) of this Resolution.

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
	§§ 10.5 to 10.7 Approval of Document <u>500</u>	1 WRC-19 has adopted a new milestone-based approach for the deployment of non-geostationary satellite systems in specific bands and services. WRC-19 indicates to the Director of the Radiocommunication Bureau that with the milestone approach, WRC-19 is not encouraging routine use of No. 13.6 in the Radio Regulations, in the absence of reliable information, to seek confirmation of the deployment of the number of satellites in notified orbital planes for non-geostationary satellite orbit systems in frequency bands and services not listed in <i>resolves</i> 1 of the new Resolution.
		2 WRC-19 invites ITU-R to study, as a matter of urgency, tolerances for certain orbital characteristics of non- GSO space stations of the fixed-satellite, mobile-satellite or broadcasting satellite services to account for potential differences between the notified and deployed orbital characteristics for the inclination of the orbital plane, the altitude of the apogee of the space station, the altitude of the perigee of the space station and the argument of the perigee of the orbital plane.
		3 WRC-19 invites ITU-R to study, as a matter of urgency, possible development of a post-milestone procedure taking into account the reporting defined in § 18 of the Resolution [7(A)-NGSO-MILESTONES] .
		Furthermore, WRC-19 instructs the Bureau in applying the relevant provisions of the RR (e.g. No. 11.44C.2 or resolves 9d) of Resolution [7(A)-NGSO-MILESTONES]) to exercise utmost caution until such time as ITU-R completes studies on tolerances.
	§§ 12.2 to 12.4 Approval of	Instructions to the Radiocommunication Bureau in application of Resolution [A7(E)-AP30B] (WRC-19)
	Document <u>509</u>	1Application of the § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) for modification under § 6.1of RR Appendix 30B of a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B
		When, under the application of § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19), an administration intends to modify a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B , to resubmit such submission under § 6.1 of RR Appendix 30B applying the special procedure described in the Attachment of Resolution [A7(E)-AP30B] (WRC-19), the Bureau shall verify if the minimum ellipse submitted under this procedure is within the envelope of the initial submission under § 6.1 of RR Appendix 30B . If this is the case, the Bureau shall keep the initial

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
		date of receipt of the initial submission under § 6.1 of RR Appendix 30B , shall restart compatibility examination with existing filing and shall publish a new special section. Otherwise, the Bureau shall give a new date of reception which is the date of reception of request application of this procedure.
		2 Application of the § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) for direct submission under § 6.17 of RR Appendix 30B of a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B
		a) Submission of an ellipse under § 6.17 of RR Appendix 30B
		When, under the application of § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19), an administration intends to directly submit under § 6.17 of RR Appendix 30B and apply the special procedure described in the Attachment of Resolution [A7(E)-AP30B] (WRC-19) to a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B , the Bureau shall verify if the minimum ellipse submitted under this procedure is within the envelope of the initial submission under § 6.1 of RR Appendix 30B . If this is the case, the Bureau shall keep the initial date of receipt of the initial submission under § 6.1 of RR Appendix 30B and shall perform analysis under § 6.17 of Appendix 30B based on this minimum ellipse. Otherwise, the Bureau shall return the notice to the administration.
		b) Submission of a shaped beam under § 6.17 of Appendix 30B
		When, under the application of § 2 of the attachment of Resolution [A7(E)-AP30B] (WRC-19), an administration intends to directly submit under § 6.17 of RR Appendix 30B and apply the special procedure described in the Attachment of Resolution [A7(E)-AP30B] (WRC-19) to a submission previously sent to the Bureau under § 6.1 of RR Appendix 30B , the Bureau shall verify if the shaped beam submitted under this procedure is within the envelope of the minimum ellipse generated by the Bureau, considering associated test points, and within the envelope of the initial submission under § 6.1 of RR Appendix 30B . If this is the case, the Bureau shall keep the initial date of receipt of the initial submission under § 6.1 of RR Appendix 30B and shall perform analysis under § 6.17 of RR Appendix 30B based on this minimum ellipse. Otherwise, the

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
		3 Beam to be created in cases of submissions of an additional system by an administration acting on behalf of a group of named administrations
		For a submission of an additional system by an administration acting on behalf of a group of named administrations, the beam of the submission is formed by combining all individual minimum ellipses associated with each of the administrations of the group:
		 If all individual minimum ellipses overlap with each other, the beam contains only one coverage area formed by the contours stemming from the combination of all individual minimum ellipses.
		 If not all individual minimum ellipses overlap with each other, the beam consists of multiple spots stemming from the non-overlapping ellipses and each spot is formed by the contours stemming from the combination of individual minimum ellipses that overlap with each other.
		4 Application of the § 12 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) when there is a lack of collaboration of the notifying administration of the existing network
		When, under the application of § 12 of the attachment of Resolution [A7(E)-AP30B] (WRC-19) , the Bureau does not receive confirmation from the notifying administration of the incoming network that the collaboration between the two administrations has successfully started, the notifying administration may seek assistance of the Bureau. The Bureau shall immediately send a telefax to the notifying administration of the existing network requesting it to provide within 30 days the conditions for the operation to verify harmful interference and proposed date of the implementation of those conditions within the next 4 months for the application of § 12 of Resolution [A7(E)-AP30B] . In the absence of such information received by the Bureau, the Bureau shall immediately send a reminder providing an additional 15-day period for the response. In the absence of such acknowledgment within 15 days, it shall be deemed that the notifying administration of the existing network which has failed to start collaboration has undertaken that no complaint will be made in respect of any harmful interference affecting its own assignments which may be caused by the assignment of the notifying administration of the incoming network for which coordination was requested.

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text		
	§§ 13.7 to 13.9 Approval of Document <u>510</u>	Instructions to the Radiocommunication Bureau in application of Annex 3 and Annex 4 of RR Appendix 30B as we as of criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in its processing, after 22 November 2019, of submissions received under that Appendix		
		The Radiocommunication Bureau shall continue to calculate and update already accepted single-entry values in both uplink and downlink for all RR Appendix 30B satellite networks in consistency with footnotes X2 and X3 to item 2.1 of the Annex 4 of RR Appendix 30B (Rev.WRC-19), so that this information could be used by administrations during coordination of their respective networks. The Radiocommunication Bureau shall apply:		
		1 For complete submissions under § 6.1 received by the Bureau before 23 November 2019:		
		a) Annex 3 (WRC-07) in its examination under § 6.3 b);		
		<i>b)</i> Annex 4 (Rev.WRC-07) in its examination under § 6.5.		
		Note: Including protection of submissions under Issue E examined before Part A.		
		2 For complete submissions under § 6.17 received by the Bureau before 23 November 2019:		
		a) Annex 3 (WRC-07) in its examination under § 6.19 c);		
		<i>b)</i> Annex 4 (Rev.WRC-07) in its examination under § 6.21;		
		c) Annex 4 (Rev.WRC-07) in its further examination under the new footnote to § 6.21 c);		
		<i>d)</i> Annex 4 (Rev.WRC-07) in its examination under § 6.22.		
		Note: Including protection of submissions under Issue E examined before Part B.		
		For complete submissions under § 6.17 received by the Bureau after 22 November 2019, related to complete submissions under § 6.1 received by the Bureau before 23 November 2019:		
		a) Annex 3 (WRC-07) in its examination under § 6.19 c);		
		<i>b)</i> Annex 4 (Rev.WRC-07) in its examination under § 6.21;		
		c) Annex 4 (Rev.WRC-07) in its further examination under footnote YY to § 6.21 c) if the remaining affected assignments are recorded in the List before 23 November 2019;		

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text	
			 Annex 4 (Rev.WRC-19) in its further examination under footnote YY to § 6.21 c) if the remaining affected assignments are recorded in the List after 22 November 2019;
		e) Annex 4 (Rev.WRC-19) in its examination under § 6.22.	
		Note: Including protection of submissions under Issue E examined before Parts A and/or B.	
		4 For complete submissions under § 6.1 received by the Bureau after 22 November 2019:	
		a) Annex 3 (Rev.WRC-19) in its examination under § 6.3 b);	
		b) Annex 4 (Rev.WRC-19) in its examination under § 6.5.	
		5 For complete submissions under § 6.17 received by the Bureau after 22 November 2019, related to complete submissions under § 6.1 received by the Bureau after 22 November 2019:	
		a) Annex 3 (Rev.WRC-19) in its examination under § 6.19 c);	
		<i>b)</i> Annex 4 (Rev.WRC-19) in its examination under § 6.21;	
		c) Annex 4 (Rev.WRC-19) in its examination under § 6.22.	
		6 For complete submissions under § 6.1 in application of Resolution [A7(E)-AP30B] (WRC-19) :	
		a) Annex 3 (Rev.WRC-19) in its examination under § 6.3 b);	
		b) Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in it examination under § 6.5, as appropriate.	
		Note: Including examination of submissions under Issue E before the examination of the last normal Part A and/or Part B received before 23 November 2019.	
		7 For complete submissions under § 6.17 in application of Resolution [A7(E)-AP30B] (WRC-19) , the Bureau shal apply:	
		a) Annex 3 (Rev.WRC-19) in its examination under § 6.19 c);	
		 b) Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in its examination under § 6.21, as appropriate; 	
		c) Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in its further examination under footnote YY to § 6.21 c), as appropriate;	

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
		d) Annex 4 (Rev.WRC-19) and the new criteria referred to in Resolution [A7(E)-AP30B] (WRC-19) in its examination under § 6.22, as appropriate.
		Application of § 6.16:
		 In excluding the territories of the concerned administration, the Bureau shall apply Annex 4 (Rev.WRC-07) until the last complete submissions under § 6.1 or § 6.17 received by the Bureau before 23 November 2019 has been examined and Annex 4 (Rev.WRC-19) afterward.
		 If § 6.16 request is submitted in order to be taken into account for the examination of a complete submissions under § 6.17, in examining those submissions, the Bureau shall apply appropriate Annex 4 used in the examination under § 6.21 and § 6.22 as indicated above.
		Application of § 6.27 in updating criteria:
		The Bureau shall apply Annex 4 (Rev.WRC-07) until the last complete submissions under § 6.1 or § 6.17 received by the Bureau before 23 November 2019 has been examined and Annex 4 (Rev.WRC-19) afterward.
		Application of § 7.5:
		 For a request under Article 7 received before 23 November 2019, the Bureau shall apply Annex 3 (WRC-07) and Annex 4 (Rev.WRC-07).
		 For a request under Article 7 received after 22 November 2019, the Bureau shall apply Annex 3 (Rev.WRC-19) and Annex 4 (Rev.WRC-19).
		In its examination under 6.21 c), the Bureau shall take into account also complete submissions under § 6.1 in application of Resolution [A7(E)-AP30B] (WRC-19) and Article 7 request transferred to Article 6 under § 7.7 that has been examined before the date of receipt of the examined notice submitted under § 6.1.
Document	§§ 1.7 to 1.10	Regarding meteorological radars, the revision of resolves 8 of Resolution 229 (Rev.WRC-19) as agreed under Agenda
<u>CMR19/572</u> – Minutes of the eleventh Plenary meeting	Approval of Document <u>402</u>	item 9.1 (Issue 9.1.5) (WRC-19) is strictly limited to the specification of Dynamic Frequency Selection (DFS) parameters with respect to the changes in Nos. 5.447F and 5.450A.

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
Document <u>CMR19/573</u> – Minutes of the twelfth Plenary meeting	§§ 3.13 to 3.16 Approval of Document <u>518(Corr.1)</u>	Request for MNG00000 and SANSAR-1 (113.6° E) satellite networks WRC-19 considered the specific request made by Mongolia in Document 164 regarding the reference situation of the Mongolian satellite system (113.6° E) in the FSS Plan. WRC-19 instructs the Radiocommunication Bureau to apply with respect to the MNG00000 and SANSAR-1 networks of Mongolia the criteria in § 2.1 of Annex 4 to RR Appendix 30B (as revised by WRC-19) when performing examination of the assignments submitted under § 6.17 of RR Appendix 30B after 22 November 2019 and related to assignments which were submitted under § 6.1 of RR Appendix 30B before 23 November 2019.
	§§ 3.17 to 3.20 Approval of	Request for PSN-146E (146° E) satellite network
	Document 518(Corr.2)	WRC-19 considered the specific request made by Indonesia in Document 35(Add.25) regarding the extension of the regulatory time limit for bringing into use frequency assignments to the PSN-146E (146° E) satellite network in the frequency bands: 17.7-21.2 GHz and 27.0-31.0 GHz from 25 October 2019 to 31 March 2023. WRC-19 agreed to accede to this limited time extension request, having confirmed that all frequency coordination activities requested by other administrations during WRC-19 had been completed for this satellite network.
		Request for GARUDA-2 (123° E) satellite network
		WRC-19 considered the specific request made by Indonesia in Document 35(Add.25) regarding the extension of the regulatory time limit for bringing back into use the frequency assignments to the GARUDA-2 (123° E) satellite network in the frequency bands: 1 530-1 559 MHz, 1 626.5-1 660.5 MHz, from 1 November 2020 to 1 November 2024. WRC-19 agreed to accede to this time extension request and the continued inclusion of the GARUDA-2 frequency assignments in the MIFR, both of which are conditional to the adherence by Indonesia to the coordination agreement reached with the United Arab Emirates. Furthermore, WRC-19 confirmed that all frequency coordination activities requested by other administrations during WRC-19 had been completed for this satellite network.
	§§ 3.25 to 3.27	Verification of No. 21.5 for the notification of IMT stations operating in the frequency band 24.45-27.5 GHz which
	Approval of Document <u>550</u>	use an antenna that consists of an array of active elements

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
		ITU-R is invited to study, as a matter of urgency, the applicability of the limit specified in No. 21.5 of the Radio Regulations to IMT stations that use an antenna that consists of an array of active elements, with a view to recommend ways for its possible replacement or revision for such stations, as well as any necessary updates to Table 21-2 related to terrestrial and space services sharing frequency bands.
		Furthermore, the ITU-R is invited to study, as a matter of urgency, verification of No. 21.5 regarding the notification of IMT stations that use an antenna that consists of an array of active elements, as appropriate.
	§§ 5.3 to 5.5 Approval of Document <u>283</u>	The administrations of Region 1 wishing to allocate the frequency band 50-54 MHz, or portions thereof, to the amateur service exclusively on a primary basis at future WRCs are invited to add their names to footnote RR No. 5.169 <i>bis</i> and not to footnote RR No. 5.169 , due to its special historical status. BR shall take all necessary actions to guide such administrations to propose addition of their names only to footnote RR No. 5.169 <i>bis</i> .
	§§ 27.1 to 27.5 Approval of Document <u>563</u>	 () It was proposed that the following text, contained in the document, be approved and included in the minutes of the plenary meeting for consideration as a possible future issue during the studies under WRC-23 agenda item 7: "To consider the protection of geostationary satellite networks in the MSS operating in 7/8 and 20/30 GHz from emissions of non-geostationary satellite systems operating in the same frequency bands and identical directions". 27.2 It was so agreed. ()
		WRC-19 therefore instructs the Radiocommunication Bureau to convey this statement to the relevant ITU-R study group for necessary action, as appropriate.
	§§ 28.104 to 28.106 Approval of	Agenda item 9.1 x invites ITU-R to conduct studies to identify the potential frequency bands for the use of IMT for fixed wireless broadband within the frequency bands allocated to the fixed service on a primary basis. Accordingly, an agenda item for WRC-27 will be developed to consider those identified bands.
	Document <u>554</u> and Corrigendum 1	

Source document (Minutes of the Plenary)	Background of the Plenary decision	Plenary decision and associated text
	§§ 35.2 to 35.4 Approval of Document <u>535</u>	Application of Rules of Procedure on RR No. 9.11A It is proposed that RR No. 9.12 does not apply to frequency assignments of stations operating in the space research or earth exploration-satellite services. Therefore, the Bureau is requested under the Rule of Procedure for RR No. 9.11A to not apply coordination under RR No. 9.12 for frequency assignments of stations operating in the space research and Earth exploration-satellite service as part of RR No. 5.A16 and RR No. 5.B16.
		Protection of EESS in the frequency band 36-37 GHz Under studies considered for WRC-19 agenda item 1.6, a preliminary study on the protection of EESS (passive) sensors operating in the 36-37 GHz was submitted to the ITU-R. This preliminary study indicated that it may be necessary to not exceed an out-of-band e.i.r.p of −34 dBW/100 MHz, for all angles greater than 71.4 degrees from nadir, for FSS non-GSO space stations operating in the frequency band 37.5-38 GHz. In addition, interference into the cold calibration channel of the EESS (passive) sensor operating in the frequency band 36-37 GHz has not been studied.
		WRC-19 invites ITU-R to conduct further study of this topic and develop Recommendations and/or Reports, as appropriate, and Report back to WRC-23 to take action, if necessary. Furthermore, WRC-19 agreed that modifications to Resolution 750 (Rev WRC-19) should not be considered under these studies since the frequency band 36-37 GHz is not referenced in No. 5.340 .
Document <u>CMR19/575</u> – Minutes of the fourteenth Plenary meeting	§§ 3.1 to 3.7 Approval of Document <u>566</u>	The Chairman took it that the conference wished to authorize the Director of BR to proceed with the inclusion of the corrections outlined in Documents 203, 212, 336, 340 and 456 in the next edition of the Radio Regulations, in accordance with the procedure described in Document 566.