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| A close up of a sign  Description automatically generated | **World Radiocommunication Conference (WRC-23)Dubai, 20 November - 15 December 2023** |  |
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| PLENARY MEETING | **Document 193-E** |
|  | **30 October 2023** |
|  | **Original: Spanish** |
|  |
| Costa Rica/Mexico |
| PROPOSALS FOR THE WORK OF THE CONFERENCE |
|  |
| Agenda item 1.1 |

1.1 to consider, based on the results of ITU‑R studies, possible measures to address, in the frequency band 4 800-4 990 MHz, protection of stations of the aeronautical and maritime mobile services located in international airspace and waters from other stations located within national territories, and to review the power flux-density criteria in No. **5.441B** in accordance with Resolution **223 (Rev.WRC‑19)**;

Proposal

ARTICLE 5

Frequency allocations

Section IV – Table of Frequency Allocations
(See No. 2.1)

MOD CTR/MEX/193/1

4 800-5 250 MHz

|  |
| --- |
| Allocation to services |
| Region 1 | Region 2 | Region 3 |
| 4 800-4 990 FIXED MOBILE 5.440A 5.441A MOD 5.441B ADD 5.A11 5.442  Radio astronomy 5.149 5.339 5.443 |

**Reasons:** It is proposed to modify No. **5.441B** in order to update the power flux density levels in line with the results of ITU-R studies and to include a new RR footnote which covers the countries listed under *resolves* 5 of Resolution 223 and any appropriate countries that so wish.

MOD CTR/MEX/193/2

5.441B In Angola, [Armenia], Azerbaijan, Benin, Botswana, [Brazil], Burkina Faso, Burundi, [Cambodia], Cameroon, [China], Côte d’Ivoire, Djibouti, Eswatini, [Russian Federation], Gambia, Guinea, Iran (Islamic Republic of), [Kazakhstan], Kenya, [Lao P.D.R.], Lesotho, Liberia, Malawi, Mauritius, [Mexico], Mongolia, Mozambique, Nigeria, Uganda, [Uzbekistan], the Dem. Rep. of the Congo, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, [South Africa], Tanzania, Togo, [Viet Nam], Zambia and [Zimbabwe], the frequency band 4 800-4 990 MHz, or portions thereof, 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 priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. **9.21** with concerned administrations, and IMT stations shall not claim protection from stations of other applications of the mobile service. In addition, administrations shall ensure that the power flux-density (pfd) produced by an IMT station in the mobile service does not exceed, for the protection of the aeronautical mobile service, −117 dB(W/(m2 · 1 MHz)) in the frequency bands 4 800-4 825 MHz and 4 835-4 950 MHz produced up to 19 km above sea level at 22 km from the coast, defined as the low-water mark, as officially recognized by the coastal State, and, for the protection of the maritime mobile service, −115 dB(W/(m2 · 1 MHz)) in the frequency band 4 800-4 990 MHz, produced up to 30 m above sea level at 22 km from the coast. Resolution **223 (Rev.WRC‑23)** applies.     (WRC‑23)

**Reasons:** To establish a pfd value that protects the aeronautical mobile service in international airspace and the maritime mobile service in international waters. Also, to provide flexibility for countries involved to identify the most suitable mechanism for them, deciding which RR footnote they wish to apply to their country during WRC-23, i.e. to apply pfd limits to IMT stations in addition to RR No. **9.21** (No. **5.441B**) or to apply only RR No. **9.21** (new No. **5.A11**).

ADD CTR/MEX/193/3#1330

5.A11 In [Armenia], [Brazil], [Cambodia], [China], Costa Rica, [Russian Federation], [Kazakhstan], [Lao P.D.R], Mexico, [Uzbekistan], [South Africa], [Viet Nam], [Zimbabwe], the frequency band 4 800-4 900 MHz, or portions thereof, 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 priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. **9.21** with concerned administrations, and IMT stations shall not claim protection from stations of the aeronautical mobile service and maritime mobile service. Resolution **223 (Rev.WRC‑23)** applies.     (WRC‑23)

**Reasons:** To provide flexibility for countries involved to identify the most suitable mechanism for them, deciding which RR footnote they wish to apply to their country during WRC-23, i.e. to apply RR No. **9.21** and pfd limits to IMT stations (No. **5.441B**) or to apply only RR No. **9.21** (new No. **5.A11**).

MOD CTR/MEX/193/4

RESOLUTION 223 (REV.WRC‑23)

Additional frequency bands identified for International
Mobile Telecommunications

The World Radiocommunication Conference (Dubai, 2023),

…

recognizing

*a)* that for some administrations the only way of implementing IMT would be spectrum refarming, requiring significant financial investment;

*b)* that the rights to international recognition and protection of any frequency assignments are derived from the recording of those frequency assignments in the Master International Frequency Register and conditioned by the provisions of the Radio Regulations,

resolves

1 to invite administrations planning to implement IMT to make available, based on user demand and other national considerations, additional frequency bands or portions of the frequency bands above 1 GHz identified in Nos. **5.341B**, **5.384A**, **5.429B**, **5.429D**, **5.429F**, **5.441A**, **5.441B** and **5.A11** for the terrestrial component of IMT; due consideration should be given to the benefits of harmonized utilization of the spectrum for the terrestrial component of IMT, taking into account the services to which the frequency band is currently allocated;

2 to acknowledge that the differences in the texts of Nos. **5.341B**, **5.384A** and **5.388** do not confer differences in regulatory status;

3 that in the frequency bands 4 800-4 825 MHz and 4 835-4 950 MHz, in order to identify potentially affected administrations when applying the procedure for seeking agreement under No. **9.21** by IMT stations in relation to aircraft stations, a coordination distance from an IMT station to the border of another country equal to 300 km (for land path)/450 km (for sea path) applies;

4 that in the frequency band 4 800-4 990 MHz, in order to identify potentially affected administrations when applying the procedure for seeking agreement under No. **9.21** by IMT stations in relation to fixed-service stations or other ground-based stations of the mobile service, a coordination distance from an IMT station to the border of another country equal to 70 km applies,

invites the ITU Radiocommunication Sector

1 to conduct compatibility studies in order to provide technical measures to ensure coexistence between the MSS in the frequency band 1 518-1 525 MHz and IMT in the frequency band 1 492-1 518 MHz, including guidance on the implementation of frequency arrangements for IMT deployment in the frequency band 1 427-1 518 MHz, taking into account the results of these studies;

2 to continue providing guidance to ensure that IMT can meet the telecommunication needs of developing countries and rural areas;

3 to include the results of the studies mentioned in *invites the ITU Radiocommunication Sector* above in one or more ITU‑R Recommendations and Reports, as appropriate.

**Reasons:** In view of the proposed modification of No. **5.441B** and addition of the new No. **5.A11** and the fulfilment of the instruction to study the technical and regulatory conditions for the protection of stations in the aeronautical mobile and maritime mobile services located in international airspace or waters established in the resolution.

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