ATTACHMENT 2.11

**Working Party 5D work related to WRC-27 agenda items and/or
as requested by WRC-23 and CPM27-1**

Table A below is a summary of WRC-27 agenda items for which the Working Parties of Study Group 5 are responsible, or contributing, that may influence the work of WP 5D. Refer to Resolution [ITU-R 2-](http://www.itu.int/pub/R-RES-R.2)9 (2023) “Conference Preparatory Meeting”. Table A1 details WRC-27 agenda items for which WP 5D is the responsible group (or partly responsible). Table B summarizes the work suggested, required and/or planned for WP 5D from WRC-23.

The full list of WRC-23 agenda items relevant to SG 5 and WP 5D can be found in Attachment 8 of [Document 5/1](https://www.itu.int/md/R23-SG05-C-0001/en). CPM27-1 identified WP 5D as a responsible group for one WRC‑27 agenda item and as a contributing group for ten WRC‑27 agenda items, refer to Administrative Circular [CA/270](https://www.itu.int/md/R00-CA-CIR-0270/en). The referred WRC-23 Resolutions in the table on the next page are available in [the Final Acts of WRC-23](https://www.itu.int/en/publications/ITU-R/pages/publications.aspx?parent=R-ACT-WRC.16-2024&media=electronic) as well as [the 2024 Edition of the Radio Regulations](https://www.itu.int/hub/publication/r-reg-rr-2024). Please refer to Administrative Circular CA/270 and the [CPM web page](http://www.itu.int/ITU-R/index.asp?category=study-groups&link=rcpm&lang=en) for potential additional information.

tABLE A

**Summary of WRC-27 agenda items for which the Working Parties of Study Group 5 are a responsible or contributing group**

**(Reference:** [**Document 5/1)**](https://www.itu.int/md/R23-SG05-C-0001/en)

*Legend:* R = Responsible group; C = Contributing group; \* = see notes below the table.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **AI** | **Topic** | **Resolution** | **WP 5A** | **WP 5B** | **WP 5C** | **WP 5D** | **Other WPs/TG (R)** | **R** |
| 1.1 | Aeronautical and maritime ESIM | Res. **176 (Rev.WRC-23)** | C | C | C | C | 3M, 4A, 7C, 7D | 4A |
| 1.2 | FSS with small antenna sizes in the frequency band 13.75-14 GHz | Res. **129 (WRC-23)** | C | C | C | - | 3M, 4A, 7A, 7B, 7C | 4A |
| 1.3 | Non-GSO in the FSS in the frequency band 13.75-14 GHz | Res. **130 (WRC 23)** | C | - | C | - | 3M, 4A, 7C, 7D | 4A |
| 1.4 | New allocation for FSS in 17.3-17.7 GHz and BSS in 17.3-17.8 GHz | Res. **726 (WRC 23)** | C | C | C | - | 3M, 4A, 4B, 7C | 4A |
| 1.5 | Unauthorized operations of non-GSO FSS and MSS earth stations  | Res. **14 (WRC 23);** | - | - | - | - | 1B, 4A, 4C | 4A |
| 1.6 | FSS in the bands 37.5-42.5 GHz, 42.5-43.5 GHz, 47.2-50.2 GHz and 50.4-51.4 GHz | Res. **131 (WRC 23)** | C | C | C | C | 3M, 4A, 4B, 4C, 6A, 7B, 7C, 7D | 4A |
| 1.7 | IMT in the bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof) and 14.8-15.35 GHz | Res. **256 (WRC-23)** | C | C | C | **R** | 3K, 3M, 4A, 4C, 7B, 7C, 7D | 5D |
| 1.8 | Radiolocation service in the bands 231.5-275 GHz and the frequency range 275-700 GHz | Res. **663 (Rev.WRC-23)** | C | **R** | C | - | 3J, 3K, 3M, 4A, 4C, 7C, 7D | 5B |
| 1.9 | Update RR, Appendix 26 in support of aeronautical mobile (OR) high frequency modernization | Res. **411 (WRC 23)** | - | **R** | C | - | 3L, 6A, 7A | 5B |
| 1.10 | Protection of FS and MS by FSS, MSS and BSS in the bands 71-76 GHz and 81-86 GHz | Res. **775 (Rev.WRC-23)** | C | C | **R** | - | 3J, 3M, 4A, 4B, 4C, 6A, 7C, 7D | 5C |
| 1.11 | Space-to-space transmission between NGSO and GSO in the bands 1.6 GHz and 2.5 GHz | Res. **249 (Rev.WRC-23)** | C | C | C | C | 3L, 3M, 4A, 4B, 4C, 7B, 7C, 7D | 4C |
| 1.12 | MSS (low-data NGSO) in the bands 1 427-1 432 MHz, 1 645.5-1 646.5 MHz, 1 880-1 920 MHz and 2 010-2 025 MHz | Res. **252 (WRC 23)** | C | C | C | C | 3L, 3M, 4B, 4C, 7B, 7C, 7D | 4C |
| 1.13 | MSS (direct to device) in IMT-bands between 694/698 MHz to 2.7 GHz | Res. **253 (WRC-23)** | C | C | C | C | 3L, 3M, 4A, 4B, 4C, 6A, 7B, 7C, 7D | 4C\* |
| 1.14 | MSS in the 2 GHz | Res. **254 (WRC 23)** | C | - | C | C | 3L, 3M, 4B, 4C, 7B | 4C |
| 1.15 | Space research service allocations, for communications on the lunar surface and lunar orbit | Res. **680 (WRC 23)** | C | C | C | C | 3J, 4A, 4C, 7A, 7B, 7C, 7D  | 7B |
| 1.16 | Protection of RAS in radio quite zones | Res. **681 (WRC 23)** | C | C | - | C | 3J, 3M, 4A, 4C, 7D | 7D |
| 1.17 | Space weather sensors (several bands in the 30 MHz, 70 MHz, 600 MHz range) | Res. **682 (WRC 23)** | C | C | C | C | 3L, 3M, 4C, 6A, 7B, 7C, 7D | 7C |
| 1.18 | Protection of EESS & RAS from unwanted emissions of active sensors above 76 GHz | Res. **712 (WRC-23)** | C | C | C | - | 3J, 3M, 4A, 4C, 7C, 7D | 7C/7D |
| 1.19 | EESS globally in 4.3 and 8.5 GHz | Res. **674 (WRC-23)** | C | C | C | C | 3J, 3M, 4A, 7B, 7C | 7C |
| \*For WRC-27 agenda item 1.13, CPM27-1 has clarified which parts of the work will be conducted in WP 4C and which parts will be conducted in WP 5D and how the two group should cooperate, see details below. |

TABLE A-1

**Details of WRC-27 agenda items for which WP 5D is the responsible group (or partly responsible)**

**(Reference:** [**Document 5/1)**](https://www.itu.int/md/R23-SG05-C-0001/en)

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic** | **Responsible group** | **Action to be taken by the group** | **Contributing group** |
| 1.7 to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution **256 (WRC-23)**; |
| Resolution**256 (WRC‑23)**Sharing and compatibility studies and development of technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz, 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz for the terrestrial component of IMT | **WP 5D** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 the appropriate studies of technical, operational and regulatory issues pertaining to the possible use of the terrestrial component of IMT in the frequency bands listed in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 2, taking into account:– evolving needs to meet emerging demand for IMT;– technical and operational characteristics of terrestrial IMT systems that would operate in these specific frequency bands, including the evolution of IMT through advances in technology and spectrally efficient techniques;– the deployment scenarios envisaged for IMT systems and the related requirements of balanced coverage and capacity;– the needs of developing countries; and– the time-frame in which spectrum would be needed;2 sharing and compatibility studies, with a view to ensuring the protection of services to which the frequency band is allocated on a primary basis, including protection of stations operating in international waters or airspace which cannot be registered in the MIFR, without imposing additional regulatory or technical constraints on those services, and also on services in adjacent bands, for the frequency bands:–4 400-4 800 MHz;– 7 125-8 400 MHz; and– 14.8-15.35 GHz,…*invites the 2027 world radiocommunication conference*to consider, based on results of studies, the identification of frequency band(s):– 4 400-4 800 MHz, or parts thereof, in Region 1 and Region 3; – 7 125-8 400 MHz, or parts thereof, in Region 2 and Region 3; – 7 125-7 250 MHz and 7 750-8 400 MHz, or parts thereof, in Region 1;– 14.8-15.35 GHz,for the terrestrial component of IMT. | **WP 3K****WP 3M****WP 4A****WP 4C****WP 5A****WP 5B****WP 5C****WP 7B****WP 7C****WP 7D** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic** | **Responsible group** | **Action to be taken by the group** | **Contributing group** |
| 1.13 to consider studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage, in accordance with Resolution **253 (WRC-23)**; |
| Resolution**253 (WRC‑23)**Studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage | **WP 4C[[1]](#footnote-1)\*** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on possible allocations to the MSS in the frequency range between 694/698 MHz and 2.7 GHz, taking into account the IMT frequency arrangements addressed in the most recent version of Recommendation ITU‑R M.1036;2 studies on spectrum requirements and on technical, operational and regulatory matters related to the implementation of the mobile-satellite service for direct connectivity to the IMT user equipment to complement the terrestrial IMT network coverage,*further resolves*1 to conduct studies on sharing and compatibility between incumbent services, including in adjacent frequency bands, ensuring the protection of incumbent services in accordance with the Radio Regulations;2 to study possible technical and operational measures to ensure that the stations in the MSS do not cause harmful interference to, or claim protection from, stations operating in the mobile service,…*invites the 2027 world radiocommunication conference*to consider, based on the results of studies, the appropriate regulatory actions, including possible new allocations to the MSS for direct connectivity between space stations and IMT user equipment to complement terrestrial IMT network coverage. | **WP 3L****WP 3M****WP 4A****WP 4B****WP 5A****WP 5B****WP 5C****WP 5D\*****WP 6A****WP 7B****WP 7C****WP 7D** |

TABLE A-2

**Details of WRC-27 agenda items for which WP 5D 5 is a contributing group**

**(Reference:** [**Document 5/1)**](https://www.itu.int/md/R23-SG05-C-0001/en)

| **Topic** | **Responsible group** | **Action to be taken by the group** | **Contributing group** |
| --- | --- | --- | --- |
| 1.1 to consider the technical and operational conditions for the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with space stations in the fixed-satellite service and develop regulatory measures, as appropriate, to facilitate the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion communicating with geostationary space stations and non-geostationary space stations in the fixed-satellite service, in accordance with Resolution **176 (Rev.WRC-23)**; |
| Resolution **176 (Rev.WRC-23)**Studies on the use of the frequency bands 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), or parts thereof, by aeronautical and maritime earth stations in motion in the fixed-satellite service | **WP 4A** | *considering**a)* that the frequency bands 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) are globally allocated on a primary basis to the fixed-satellite service (FSS);...*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on the spectrum needs and technical and operational characteristics of A-ESIMs and M-ESIMs that plan to operate within FSS allocations in the frequency bands mentioned in *considering* *a)*, or parts thereof;2 studies on sharing and compatibility between A-ESIMs and M-ESIMs communicating with space stationsin the FSS in the frequency bands mentioned in *considering* *a)*,or parts thereof, and the stations of primary services allocated in these frequency bands and in adjacent frequency bands, including passive services in adjacent and near-adjacent frequency bands, in order to ensure protection of, and not impose undue constraints on, those services;3 the development, for M-ESIMs and A-ESIMs, of the technical conditions for their operation, taking into account the results of the studies above;4 the development, for M-ESIMs and A-ESIMs communicating with GSO networks and non-GSO systems, of regulatory provisions for their operation, taking into account the results of the studies above;5 consideration of the results of studies within the ITU Radiocommunication Sector (ITU‑R) for the development of a new Recommendation for the Network Control and Monitoring Centre for ESIM operations;6 studies on the responsibility of the administrations involved in the operations of the A-ESIMs and M-ESIMs addressed by this Resolution,*invites the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*the development, for M-ESIMs and A-ESIMs communicating with GSO networks or non-GSO systems, regulatory provisions for their operation, taking into account the results of the studies above,*invites the 2027 world radiocommunication conference*to consider the results of the above studies and take the necessary actions for GSO and non-GSO ESIMs, as appropriate, provided that the results of the studies referred to in *resolves to invite the ITU Radiocommunication Sector* *to complete in time for the 2027 world radiocommunication conference* are complete and agreed by the ITU‑R Study Groups. | **WP 3M****WP 5A****WP 5B****WP 5C****WP 5D****WP 7C****WP 7D** |
| 1.6 to consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands, in accordance with Resolution **131 (WRC‑23)**; |
| Resolution**131 (WRC‑23)**Consideration of technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands | **WP 4A** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*to study the technical and regulatory measures for FSS satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), or portions thereof, for equitable access, while ensuring the protection of existing primary services to which the band is allocated in the same and adjacent bands, taking into account the specific needs of developing countries:– without adversely affecting those services, specifically the operation of the satellite networks and systems in the bands;– without changing measures to protect terrestrial services from unacceptable interference,*invites the 2027 world radiocommunication conference*to review the results of the studies in accordance with *resolves* *to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* above and take appropriate action on the usage of the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands by FSS satellite networks/systems,… | **WP 3M****WP 4B****WP 4C****WP 5A****WP 5B****WP 5C****WP 5D****WP 6A****WP 7B****WP 7C****WP 7D** |
| 1.11to consider the technical and operational issues, and regulatory provisions, for space-to-space links among non-geostationary and geostationary satellites in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution **249** **(Rev.WRC‑23)**; |
| Resolution **249 (Rev.WRC-23)**Study of technical and operational issues and regulatory provisions for space-to-space transmissions in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz and 2 483.5-2 500 MHz | **WP 4C** | *recognizing further*...*e)* that Nos. **5.357A** and **5.362A** provide priority for accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, and 1 555-1 559 MHz and 1 656.5-1 660.5 MHz, respectively;*f)* that No. **5.353A** provides priority for distress, urgency and safety communications of the GMDSS in the frequency bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz;...*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies of the technical and operational characteristics of different types of non-GSO space stations that operate or plan to operate space-to-space links with GSO networks in the following frequency bands, with the limitation that these space-to-space links only operate in the same direction as the existing MSS allocations:*a)* Earth-to-space direction in the frequency bands 1 626.5-1 645.5 MHz and 1 646.5‑1 660 MHz; and *b)* space-to-Earth direction in the frequency bands 1 525-1 544 MHz and 1 545‑1 559 MHz;2 studies of the technical and operational characteristics of different types of non-GSO space stations that operate or plan to operate space-to-space links with non-GSO systems or GSO networks in the following frequency bands, with the limitation that these space-to-space links only operate in the same direction as the existing MSS allocations:*a)* Earth-to-space direction in the frequency bands 1 610-1 626.5 MHz and 1 670-1 675 MHz; and*b)* space-to-Earth direction in the frequency bands 1 518-1 525 MHz, 1 613.8-1 626.5 MHz and 2 483.5‑2 500 MHz;3 studies of sharing and compatibility between space-to-space links in the cases described in *resolves to invite the ITU Radiocommunication Sector* *to complete in time for the 2027 world radiocommunication conference* 1 and 2 and– current and planned stations of the MSS, taking into account, in particular, *recognizing further e)* and *f)*;– other existing primary services allocated in the same frequency bands; – other existing primary services allocated in adjacent frequency bands; and – existing passive services allocated in adjacent frequency bands;in order to ensure protection of other MSS operations and other services allocated in those frequency bands and in adjacent frequency bands, taking into account *recognizing further* *a)* to *m)*;4 development of technical conditions and regulatory provisions for the operation of space-to-space links in these frequency bands, including MSS (space-to-space) allocations or the addition of inter-satellite service (ISS) allocations, in all or parts of the frequency bands identified in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 and 2 above, with the condition that stations operating in an MSS (space-to-space) or ISS allocation shall not cause harmful interference to, or claim protection from, the MSS (space-to-Earth) or MSS (Earth-to-space), while ensuring the protection of other services allocated in those and adjacent frequency bands, taking into account the results of the studies called for in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1, 2,and 3above,…*invites the 2027 world radiocommunication conference*to consider the results of the above studies and take necessary regulatory actions, as appropriate. | **WP 3L****WP 3M****WP 4A****WP 4B****WP 5A****WP 5B****WP 5C****WP 5D****WP 7B****WP 7C****WP 7D** |
| 1.12 to consider, based on the results of studies, possible allocations to the mobile-satellite service and possible regulatory actions in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5-1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space) and 2 010-2 025 MHz (space-to-Earth) (Earth-to-space) required for the future development of low-data-rate non-geostationary ‑mobile-satellite‑ systems, in accordance with Resolution **252 (WRC‑23)**; |
| Resolution**252 (WRC‑23)**Studies on potential new allocations to, and regulatory actions for, the mobile-satellite service in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5-1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space) and 2 010-2 025 MHz (space-to-Earth) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems | **WP 4C** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on spectrum requirements, technical and operational characteristics and conditions for non-GSO low-data-rate MSS systems, including mitigation techniques, that allow coexistence of these systems in the same frequency bands;2 studies on sharing and compatibility between the non-GSO low-data-rate MSS systems and the existing primary services operating in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5-1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space) and 2 010-2 025 MHz (space-to-Earth) (Earth-to-space) and in the relevant adjacent frequency bands, in order to ensure protection of existing services,…*invites the 2027 world radiocommunication conference*to consider, based on the results of studies, possible allocations to the MSS and possible regulatory actions in the frequency bands referred to in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*. | **WP 3L****WP3M****WP 4B**(WP 4B is requested to provide information on future development of low-data-rate non-GSO MSS systems)**WP 5A****WP 5B****WP 5C****WP 5D****WP 7B****WP 7C****WP 7D** |
| 1.14to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution **254 (WRC‑23)**; |
| Resolution**254 (WRC‑23)**Studies on possible new frequency allocations to the mobile-satellite service in the frequency bands 2 010-2 025 MHz (Earth-to-space) and 2 160-2 170 MHz (space-to-Earth) in Regions 1 and 3 and 2 120-2 160 MHz (space-to-Earth) in all Regions | **WP 4C** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on relevant spectrum requirements and technical, operational and regulatory matters for the MSS in connection with possible new allocations to the MSS in the frequency bands 2 010-2 025 MHz (Earth-to-space) and 2 160-2 170 MHz (space-to-Earth) in Regions 1 and 3 and 2 120-2 160 MHz (space-to-Earth) in all Regions;2 studies on sharing and compatibility of possible new allocations to the MSS in the frequency bands being studied to ensure the protection of existing services allocated on a primary basis, and also in adjacent frequency bands, without adversely affecting those services;3 studies on possible technical, operational and regulatory measures that ensure the protection of existing services and their continued operation and future development without imposing additional regulatory or technical constraints on those services, while ensuring their protection from harmful interference, when considering possible additional allocations to the MSS,…*invites the 2027 world radiocommunication conference*to consider, based on results of studies conducted under *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*, possible new allocations and associated regulatory conditions for the MSS, while ensuring the protection of existing primary services. | **WP 3L****WP3M****WP 4B****WP 5A****WP 5C****WP 5D****WP 7B** |
| 1.15to consider studies on frequency-related matters, including possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface, in accordance with Resolution **680 (WRC‑23)**; |
| Resolution**680 (WRC‑23)**Studies on frequency-related matters, including possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface | **WP 7B** | *considering*...*h)* that lunar scientific and exploration activities can advance the development of potential future space activities beyond space research, which may in the future include other relevant radiocommunication services for lunar communications,*noting**a)* that Section V of Article **22** addresses protection of radio astronomy in the SZM;*b)* that Recommendation ITU‑R RA.4795 relates to the protection of frequencies for radioastronomical‑ measurements in the SZM, with a view to preserving the unique radioastronomical capabilities in this zone;*c)* that the impact of unintended electromagnetic radiation from electrical and electronic systems into radio astronomy receivers should be assessed (see Question ITU‑R 243/1),...*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies of the spectrum needs of systems in the SRS which may operate on the lunar surface, or systems in lunar orbit communicating with systems on the lunar surface, in the following frequency ranges or portions thereof, taking into account *noting* *a)*, *b)* and *c)*:– 390-406.1 MHz, 420-430 MHz and 440-450 MHz, limited to outside the SZM;– 2 400‑2 690 MHz, 3 500-3 800 MHz, 5 150-5 570 MHz, 5 570-5 725 MHz, 5 775-5 925 MHz, 7 190-7 235 MHz, 8 450-8 500 MHz and 25.25-28.35 GHz;2 studies of the technical and operational characteristics, as well as protection criteria, of systems in the SRS that are planned for operation in the frequency bands in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1, as well as protection criteria to be applied for the protection of the radio astronomy service (RAS) and SRS active and passive sensors on the lunar surface and lunar orbit;3 studies of the propagation considerations for lunar surface systems and lunar-orbiting systems operating in the frequency ranges in *resolves to invite the ITU Radiocommunication Sector* *to complete in time for the 2027 world radiocommunication conference* 1;4 studies of sharing and compatibility related to systems in the SRS that are planned for operation in the frequency ranges identified in *resolves to invite the ITU Radiocommunication Sector* *to complete in time for the 2027 world radiocommunication conference* 1 to ensure protection of:– radiocommunication services, as specified in *recognizing* *g)* to *n)*, and– the RAS on the Earth and in the SZM in the same, adjacent or nearby bands;5 studies of potential new or modified frequency allocations and/or identifications to the SRS with appropriate regulatory provisions, for communications on the lunar surface or in lunar orbit communicating with systems on the lunar surface,*invites the ITU Radiocommunication Sector*1 to begin studying, taking into account *considering h)*, future spectrum needs for lunar communications and systems, beyond those identified in *resolves to invite the ITU Radiocommunication Sector* *to complete in time for the 2027 world radiocommunication conference* 1, which may be needed for communications between the Earth, lunar-orbiting spacecraft and the lunar surface;2 to study whether future radiocommunications in the vicinity of the Moon, as described in *considering* *h)*, can be accommodated within existing space radiocommunication services and whether the regulatory provisions described in the Radio Regulations are sufficient,…*invites the 2027 world radiocommunication conference*to consider, based on the results of the studies referred to in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 to5, new or modified allocations and/or identifications in the SRS in the frequency ranges in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1above, or portions thereof,for use in the vicinity of the Moon,*instructs the Director of the Radiocommunication Bureau*to report to WRC‑27 on the progress of the studies referred to in *invites the ITU Radiocommunication Sector* 1 and 2 above,*invites a future competent world radiocommunication conference after WRC‑27*to consider, if necessary, appropriate regulatory actions based upon the studies called for in *invites the ITU Radiocommunication Sector* 1and 2above. | **WP 3J****WP 4A****WP 4C****WP 5A****WP 5B****WP 5C** **WP 5D****WP 7A****WP 7C****WP 7D** |
| 1.16 to consider studies on the technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in frequency bands allocated to the radio astronomy service on a primary basis globally, from aggregate radio-frequency interference caused by non-geostationary-satellite orbit systems, in accordance with Resolution**681 (WRC‑23)**; |
| Resolution **681 (WRC‑23)**Studies of technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones and, in radio astronomy service primary allocated frequency bands globally, from aggregate radio-frequency interference caused by systems in the non-geostationary-satellite orbit | **WP 7D** | *considering*...*j)* that a small number of remote RAS stations are of the utmost importance as they are designed to make observations of significance, resulting in new knowledge of astronomical phenomena, which may require observations of objects not previously studied, or observing objects with increased precision;*k)* that, for the purpose of this Resolution, the facilities which fall into the category defined in *considering j)* are:– the Square Kilometre Array Observatory in South Africa; – the Atacama Large Millimeter/submillimeter Array (ALMA) in Chile;...*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on how the interference from unwanted emissions from a single non-GSO satellite system operating in the adjacent and nearby frequency bands in Table 1 affects the operation of RAS stations in frequency bands allocated to the RAS on a primary basis in Table 1;2 studies on how the aggregate interference from unwanted emissions from multiple non-GSO satellite systems operating in the adjacent and nearby frequency bands in Table 1 affect the operation of RAS stations in frequency bands allocated to the RAS on a primary basis in Table 1;3 studies on the possible recognition of the RQZs specified in *considering k)* above, based on their characteristics and existing ITU-R studies;4 studies on how the aggregate interference from single and multiple non-GSO satellite systems affects the operation of RAS stations in the RQZs specified in *considering* *k)*;5 studies on new coexistence measures between non-GSO satellite systems and RAS stations in the RQZs specified in *considering k)*;6 studies of methods to calculate the necessary separation distances between gateways of non-GSO systems operating in bands adjacent to or near RAS allocations and RAS stations protected by the RQZs specified in *considering k)*,*invites administrations*to participate actively in the studies and provide the technical and operational characteristics of the systems involved and other information required for the studies by submitting contributions to the ITU-R,*invites the 2027 world radiocommunication conference*1 to consider appropriate technical and/or regulatory measures based on the results of the studies mentioned in *resolves* *to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1;2 to consider, if deemed appropriate, based on the studies mentioned in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 3, 4, 5 and 6*,* potential solutions to characterize the RQZs in *considering k)* in the Radio Regulations and/or in a WRC Resolution,*instructs the Secretary-General*to bring this Resolution to the attention of COPUOS and other international and regional organizations concerned.Table 1**RAS frequency bands to be studied and corresponding active services to be included**

| **Radio astronomy frequency band** | **Active space service operating in adjacent or nearby frequency band** | **Active space service (space-to-Earth)** | **Scope** |
| --- | --- | --- | --- |
| 10.6-10.7 GHz | 10.7-10.95 GHz | FSS | *Resolves* *etc.* 1 and 2 |
| 42.5-43.5 GHz | 42-42.5 GHz | FSS | *Resolves* *etc.* 2 |
| 76-77.5 GHz | 74-76 GHz | FSS, MSS | *Resolves* *etc.* 2 |
| 94.1-95 GHz | 95-100 GHz | RNSS, MSS | *Resolves* *etc.* 2 |
| 100-102 GHz | 95-100 GHz | RNSS, MSS | *Resolves* *etc.* 1 and 2 |
| 114.25-116 GHz | 116-119.98 GHz | ISS | *Resolves* *etc.* 1 and 2 |
| 130-134 GHz | 123-130 GHz | FSS, MSS, RNSS | *Resolves* *etc.* 2 |

 | **WP 3J****WP 3M****WP 4A****WP 4C****WP 5A****WP 5B****WP 5D** |
| 1.17to consider regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU Radiocommunication Sector studies, in accordance with Resolution **682 (WRC‑23)**; |
| Resolution**682** (WRC‑23)Consideration of regulatory provisions and potential primary allocations to the meteorological aids service (space weather) to accommodate receive-only space weather sensor applications in the Radio Regulations | **WP 7C** | *noting**a)* that Resolution **675 (WRC‑23)**:– defines space weather;– designates space weather sensors to the meteorological aids service (MetAids) in the subset MetAids (space weather);...*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*1 studies on spectrum needs and appropriate protection criteria for receive-only space weather sensors, as well as system characteristics, as appropriate, taking into account *noting a)*;2 sharing and compatibility studies pertaining to potential new primary allocations to MetAids (space weather) in the following frequency bands for receive-only sensors, taking into account *resolves*2:– 27.5-28.0 MHz;– 29.7-30.2 MHz;– 32.2-32.6 MHz;– 37.5-38.325 MHz;– 73.0-74.6 MHz;– 608-614 MHz;3 studies on possible regulatory provisions of the Radio Regulations to accommodate the possibility for an administration that desires to notify a receive-only space weather sensor station to be included in the Master International Frequency Register,*further resolves*1 that no notification of frequency assignments to a station used for space weather observation be made by administrations under MetAids (space weather) until WRC‑27 introduces the corresponding allocations in Article **5**;2 that any possible new primary MetAids (space weather) allocations to be made under *resolves to invite the* *ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*2 shall not claim protection from, nor constrain the future development of, incumbent services in these frequency bands or in adjacent bands,…*invites the 2027 world radiocommunication conference*to take appropriate actions, including potential new primary receive-only MetAids (space weather) allocations, based on the results of the studies under *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*, taking into account *resolves* 2,… | **WP 3L****WP 3M****WP 4C****WP 5A****WP 5B****WP 5C****WP 5D****WP 6A****WP 7B****WP 7D** |
| 1.19 to consider possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in accordance with Resolution **674 (WRC-23)**; |
| Resolution **674 (WRC‑23)**Studies on possible allocations to Earth exploration-satellite service (passive) in the bands 4 200-4 400 MHz and 8 400-8 500 MHz | **WP 7C** | *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*sharing and compatibility studies to determine the possibility of a future allocation to the EESS (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz,…*invites the 2027 world radiocommunication conference*to examine the results of these studies with a view to considering a new primary allocation in all Regions to the EESS (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, without protection from existing services in these frequency bands and in adjacent bands. | **WP 3J****WP 3M****WP 4A****WP 5A****WP 5B****WP 5C****WP 5D****WP 7B** |

TABLE B

WP 5D work as requested by WRC-23

**(Reference:** [**Document 5/1)**](https://www.itu.int/md/R23-SG05-C-0001/en)

| **WRC Res/Rec** | **Title** | **Action to be taken by the group** | **WP** |
| --- | --- | --- | --- |
| Resolution **212 (Rev.WRC-23)** | Implementation of International Mobile Telecommunications in the bands 1 885-2 025 MHz and 2 110‑2 200 MHz | *invites the ITU Radiocommunication Sector*to study possible technical and operational measures to improve co-existence and compatibility between the terrestrial and satellite components of IMT in the frequency bands 1 980‑2 010 MHz and 2 170-2 200 MHz where those frequency bands are shared by the mobile service and the mobile-satellite service in different countries, in particular for the deployment of independent satellite and terrestrial components of IMT and to facilitate development of both the satellite and terrestrial components of IMT, | **4C, 5D** |
| Resolution **223 (Rev.WRC-23)** | Additional frequency bands identified for International Mobile Telecommunications | *invites the ITU Radiocommunication Sector*1 to continue providing guidance to ensure that IMT can meet the telecommunication needs of developing countries and rural areas; 2 to continue providing guidance to administrations planning to facilitate the implementation of IMT in the frequency band 3 300-3 400 MHz, taking into account *considering ai bis)*; 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.  | **5D** |
| Resolution **224** **(Rev.WRC-23)** | Frequency bands for the terrestrial component of International Mobile Telecommunications below 1 GHz | *resolves*1 that administrations which are implementing or planning to implement IMT consider the use of frequency bands identified for IMT below 1 GHz and the possibility of cellular-based mobile network evolution to IMT, in the frequency band identified in Nos. **5.286AA**, **5.317A**, and in some countries of Regions 2 and 3, the frequency band(s) identified in Nos. **5.295**, **5.296A** and **5.308A**, and in some countries of Region 1 in the frequency band identified in No. **5.15B**, based on user demand and other considerations;2 to encourage administrations to take into account results of the existing relevant ITU Radiocommunication Sector studies, when implementing IMT applications/systems in the frequency bands 694-862 MHz in Region 1, in the frequency band 470-806 MHz in Region 2, in the frequency band 790-862 MHz in Region 3, in the frequency band 470-698 MHz, or portions thereof, for those administrations mentioned in No. **5.296A**, in the frequency band 698-790 MHz, or portions thereof, for those administrations mentioned in No. **5.313A**, and in the frequency band 614-694 MHz, for those administrations mentioned in No. **5.15B**;3 that administrations should take into account the need to protect existing and future broadcasting stations, both analogue and digital, except analogue in the GE06 planning area, in the frequency band 470-806/862 MHz, as well as other primary terrestrial services;4 that administrations planning to implement IMT in the frequency bands mentioned in *resolves* 2 shall effect coordination, as required, with all neighbouring administrations prior to implementation;5 that in Region 1 (excluding Mongolia) and in the Islamic Republic of Iran, the implementation of stations in the mobile service shall be subject to the applications of procedures contained in the GE06 Agreement; in so doing:a) administrations which deploy stations in the mobile service for which coordination was not required, or without having obtained the prior consent of those administrations that may be affected, shall not cause unacceptable interference to, nor claim protection from, stations of the broadcasting service of administrations operating in conformity with the GE06 Agreement; this should include a signed commitment as required under § 5.2.6 of the GE06 Agreement;b) administrations which deploy stations in the mobile service for which coordination was not required, or without having obtained the prior consent of those administrations that may be affected, shall not object to nor prevent the entry into the GE06 plan or recording in the MIFR of additional future broadcasting allotments or assignments of any other administration in the GE06 Plan with reference to those stations;6 that, in Region 2, implementation of IMT shall be subject to the decision of each administration on the transition from analogue to digital television, | **5D** |
| Resolution **225 (Rev.WRC-23)** | Use of additional frequency bands for the satellite component of IMT | *invites the ITU Radiocommunication Sector*to study the sharing and coordination issues in the above bands related to use of the mobile-satellite service allocations for the satellite component of IMT and the use of this spectrum by the other allocated services, including the radiodetermination-satellite service; | **4C****[5D]** |
| Resolution **241 (Rev.WRC-23)** | Use of the frequency band 66-71 GHz for International Mobile Telecommunications and coexistence with other applications of the mobile service |  *invites the ITU Radiocommunication Sector*1 to develop ITU-R Recommendations and/or Reports, as appropriate, to assist administrations in ensuring the efficient use of the frequency band through coexistence mechanisms between IMT and other applications of the mobile service, including other wireless access systems, as well as between the mobile service and other services;*2 to regularly review, as appropriate, the impact of evolving technical and operational characteristics of IMT systems (including base-station density) and those of systems of space services on sharing and compatibility, and to take into account the results of these reviews in the development and/or revision of ITU-R Recommendations/Reports addressing, inter alia, if* | **5D** |
| Resolution **242 (Rev.WRC-23)** | Terrestrial component of International Mobile Telecommunications in the frequency band 24.25-27.5 GHz |  *invites the ITU Radiocommunication Sector*1 to update existing ITU-R Recommendations or develop a new ITU-R Recommendation, as appropriate, to provide information and assistance to the concerned administrations on possible coordination and protection measures for the RAS in the frequency band 23.6-24 GHz from IMT deployment;*2 to regularly review, as appropriate, the impact of evolving technical and operational characteristics of IMT systems (including base-station density) and those of systems of space services on sharing and compatibility, and to take into account the results of these reviews in the development and/or revision of ITU-R Recommendations/Reports addressing, inter alia, if necessary, applicable measures to mitigate the risk of interference into space receivers,* | **5D** |
| Resolution **243 (Rev.WRC-23)** | Terrestrial component of International Mobile Telecommunications in the frequency bands 37-43.5 GHz and 47.2-48.2 GHz |  *invites the ITU Radiocommunication Sector*1 to continue providing guidance to ensure that IMT can meet the telecommunication needs of the developing countries;2 to develop ITU-R Reports and Recommendations, as appropriate, to assist administrations in ensuring coexistence between IMT and BSS and FSS, including HDFSS as per No. **5.516B**, within the frequency ranges 37-43.5 GHz and 47.2-48.2 GHz, as appropriate;3 to develop a new ITU-R Recommendation, as appropriate, to provide information and assistance to the concerned administrations on possible coordination and protection measures for the RAS in the frequency band 42.5-43.5 GHz from IMT deployment;*4 to regularly review, as appropriate, the impact of evolving technical and operational characteristics of IMT systems (including base-station density) and those of systems of space services on sharing and compatibility, and to take into account the results of these reviews in the development and/or revision of ITU-R Recommendations/Reports addressing, inter alia, if* | **5D** |
| Resolution **244 (Rev.WRC-23)** | International Mobile Telecommunications in the frequency band 45.5-47 GHz |  *invites the ITU Radiocommunication Sector**to continue providing guidance to ensure that IMT can meet the telecommunication needs of the developing countries in the context of the studies referred to above.* | **5D** |
| Resolution **646 (Rev.WRC-19)** | Public protection and disaster relief | *invites the ITU Radiocommunication Sector*1 to continue its technical studies and to make recommendations concerning technical and operational implementation, as necessary, to meet the needs of PPDR radiocommunication applications, taking into account the capabilities, evolution and any resulting transition requirements of the existing systems, particularly those of many developing countries, for national and international operations;2 to review and revise Recommendation ITU-R M.2015 and other relevant ITU-R Recommendations and Reports, as appropriate. | **5A, 5B, 5C, 5D** |
| Resolution **703 (WRC-07)** | Calculation methods and interference criteria recommended by ITU R for sharing frequency bands between space radiocommunication and terrestrial radiocommunication services or between space radiocommunication services | *resolves*1 that the Director of the Radiocommunication Bureau, in consultation with Study Group Chairs, shall annually prepare a list identifying the relevant newly approved ITU-R Recommendations relating to sharing between space radiocommunication and terrestrial radiocommunication services, or between space radiocommunication services;2 that the Director of the Radiocommunication Bureau shall, once a year, publish this list electronically for the information of all administrations. | **5A, 5B, 5C, 5D** |
| Resolution **749 (Rev.WRC-23)** | Use of the frequency band 790-862 MHz in countries of Region 1 and the Islamic Republic of Iran by mobile applications and by other services | *invites administrations*to contribute further to the studies conducted by ITU-R in accordance with *recognizing*…*k)* that ITU-R initiated studies with a view to developing and completing comprehensive Recommendations and Reports, in accordance with Resolution **224 (Rev.WRC-23)**, which need to take into account the cumulative effect of interference, | **5D** |
| Resolution **760 (Rev.WRC-23)** | Provisions relating to the use of the frequency band 694-790 MHz in Region 1 by the mobile, except aeronautical mobile, service and by other services | *invites the ITU Radiocommunication Sector*1 to consider the information received about the implementation of IMT in the frequency band 694-790 MHz and develop ITU-R Reports, as appropriate;2 to pursue studies on the implementation of applications ancillary to broadcasting and programme-making on the basis of Resolution ITU-R 59, | **5D** |
| Resolution **213 (WRC‑23)** | Use of high-altitude platform stations as International Mobile Telecommunications base stations in the frequency band 694-960 MHz, or portions thereof | *invites administrations*1 to adopt appropriate frequency arrangements for HIBS in order to consider the benefits of harmonized utilization of the spectrum for HIBS and protection of existing services and systems operating on a primary basis taking into account the resolves above and the relevant ITU-R Recommendations and Reports;2 to review their entries for the broadcasting service in the Master International Frequency Register in the frequency, | **5D** |
| Resolution **218 (WRC‑23)** | Use of high-altitude platform stations as International Mobile Telecommunications base stations in the frequency band 2 500-2 690 MHz, or portions thereof | *invites administrations*to adopt appropriate frequency arrangements for HIBS in order to consider the benefits of harmonized utilization of the spectrum for HIBS and protection of existing services and systems operating on a primary basis taking, | **5D** |
| Resolution **219 (WRC‑23)** | Terrestrial component of International Mobile Telecommunications in the frequency band 10-10.5 GHz in Region 2 | *invites the ITU Radiocommunication Sector* 1 to develop harmonized frequency arrangements to facilitate IMT deployment in the frequency band 10-10.5 GHz, taking into account the results of sharing and compatibility studies conducted inpreparation for WRC-23;2 to continue providing guidance to ensure that IMT can meet the telecommunication needs of developing countries;3to develop an ITU Radiocommunication Sector (ITU-R) Report and/or Recommendation on methodologies for calculating coordination zones around radio astronomy stations operating in the frequency band 10.6-10.7 GHz in order to avoid harmful interference from IMT systems operating in the frequency band 10-10.5 GHz; 4 to review existing ITU-R Recommendations/Reports and, as appropriate, to update them or develop new ITU-R Recommendations to provide information and assistance to the administrations concerned regarding possible coordination measures for fixed-service stations with IMT stations in the frequency band 10-10.5 GHz, | **5D** |
| Resolution **220 (WRC‑23)** | Terrestrial component of International Mobile Telecommunications (IMT) within the frequency band 6 425-7 125 MHz | *invites the ITU Radiocommunication Sector* 1 to develop harmonized frequency arrangements to facilitate IMT deployment within the frequency band 6 425-7 125 MHz;2 to continue providing guidance to ensure that IMT can meet the telecommunication needs of developing countries;3 to develop a Recommendation to address methods for the determination of the protection area around a non-GSO earth station in the frequency band 6 700-7 075 MHz from an IMT base station;4 to update existing ITU-R Recommendations/Reports or develop new ITU-R Recommendations/Reports, as appropriate, to provide information and assistance to the administrations concerned on possible coordination of stations in the fixed service with IMT stations in the frequency band 6 425-7 125 MHz;5 to regularly review, as appropriate, the impact of evolving technical and operational characteristics of IMT systems (including base-station density) on sharing and compatibility with space services, and to take into account the results of these reviews in the development and/or revision of ITU-R Recommendations/Reports addressing, inter alia, if necessary, applicable measures to mitigate the risk of interference into space services;6 to develop an ITU-R Recommendation to address methods for the determination of the protection area around existing RAS stations from IMT stations in the frequency band 6 650-6 675.2 MHz;7 to update existing ITU-R Recommendations/Reports or develop new ITU-R Recommendations/Reports, as appropriate, to provide information and assistance to the administrations concerned on possible coordination of SRS (deep space) stations operating in the band 7 145-7 190 MHz with IMT stations operating in the frequency band 6 425-7 125 MHz, | **5D** |
| Recommendation **16 (Rev.WRC-19)** | Interference management for stations that may operate under more than one terrestrial radiocommunication service | *recommends*that ITU-R study all aspects of interference management resulting from the impact of technical convergence on the radio regulatory environment, involving stations that may operate under more than one terrestrial radiocommunication service, particularly cross-border interference cases, to ensure harmful interference is not caused to stations of other Member States, | 5A,5B,5C,5D |
| Recommendation **34 (WRC-23)** | Principles for the allocation of frequency bands | *instructs the Director of the Radiocommunication Bureau and requests the ITU‑R study groups*1 when carrying out technical studies relating to a frequency band, to examine the compatibility of broadly defined services with the existing utilizations and the possibility of aligning allocations on a worldwide basis, having regard to *considerings a)* to *g)* and *recommends* 1 to 4 above;2 to conduct these studies, with the participation of the International Civil Aviation Organization (ICAO), the International Maritime Organization (IMO), the World Meteorological Organization (WMO) and other international organizations concerned, where appropriate;3 to submit a report to future world radiocommunication conferences containing the results of these studies,*invites ITU‑R*to identify areas for study and to undertake the studies necessary to determine the impact on existing services of those agenda items of future world radiocommunication conferences which involve broadening the scope of existing service allocations, | 5A,5B,5C, 5D |
| Recommendation **76 (WRC-12)** | Deployment and use of cognitive radio systems | *recommends* that administrations participate actively in the ITU‑R studies conducted under Resolution ITU‑R 58, taking into account *recognizing* *a)* and *b)*. | 5A, 5D |
| Recommendation **206 (Rev.WRC-23)** | Studies on the possible use of integrated mobile-satellite service and ground component systems in the bands 1 525‑1 544 MHz, 1 545‑1 559 MHz,1 626.5‑1 645.5 MHz and 1 646.5‑1 660.5 MHz | *recommends*to invite ITU-R to conduct studies on the possible use of integrated MSS systems in the bands 1 525-1 544 MHz, 1 545-1 559 MHz, 1 626.5-1 645.5 MHz and 1 646.5-1 660.5 MHz, as appropriate, taking into account the need to protect existing and planned systems, as well as the above considering, recognizing and noting, and in particular *recognizing a)*, *b)* and *c)*, | 5D |
| Recommendation **207 (Rev.WRC-19)** | Future IMT systems | *recommends*to invite ITU-R to study as necessary technical, operational and spectrum related issues to meet the objectives of future development of IMT systems. | 5D1A |

CPM27-1 also noted that certain agenda items have overlapping frequency bands and for WP 5D the relevant frequency band is 7 190-7 235 MHz which is addressed both in WP 5D under WRC-27 agenda item 1.7 and in WP 7B under WRC-27 agenda item 1.15. For these situations. CPM27‑1 provided guidance as follows:

*“Following past practices, the responsible groups are invited to exchange the necessary characteristics, parameters and protection criteria as soon as possible to complete studies addressing mutual compatibility and sharing feasibility among the applicable services/applications. They should coordinate their work and review, as appropriate, the progress of studies so that any potential difficulties can be addressed. In cases of difficulties, the responsible groups are invited to inform to the CPM-27 Steering Group for further guidance.”*

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1. \* WP 4C will carry out the studies on possible allocations to the MSS in the frequency bands between 694/698 MHz and 2.7 GHz provided by input contributions, including those from WP 5D based on the IMT frequency arrangements contained in the most recent version of Recommendation ITU-R M.1036.
WP 4C, in close collaboration with WP 5D, will conduct studies referred to in the *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 2.
WP 4C will carry out the studies requested in the *further resolves* 1 and 2. WP 5D is expected to provide studies which include regulatory considerations on the protection of terrestrial component of IMT.
WP 4C should take the lead in developing the draft CPM text by including the WP 5D’s results on the regulatory considerations on the protection of terrestrial component of IMT. To facilitate the work, the Chairs of both WPs should coordinate the schedule of WPs meetings, as appropriate, and provide a note to both WPs in this regard. [↑](#footnote-ref-1)