Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1 on the basis of proposals from administrations, taking account of the results of WRC-23 and the Report of the Conference Preparatory Meeting, and with due regard to the requirements of existing and future services in the frequency bands under consideration, to consider and take appropriate action in respect of the following items:			
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 stations in 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*	**WP 3M** **WP 4C** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 7B** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		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.	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.2 to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution **COM6/1 (WRC-23)**;			
Resolution **COM6/1 (WRC-23)** Studies on possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes	**WP 4A***	*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1 studies on the technical and operational limitations regarding the minimum antenna size and associated power limitations of GSO and non-GSO FSS earth stations in the frequency band 13.75-14 GHz (Earth-to-space), while ensuring the protection of the services stipulated in Nos. **5.502** and **5.503**; 2 studies on possible changes to Nos. **5.502** and **5.503** and possible associated regulatory measures, … *invites the 2027 world radiocommunication conference* to consider, based on the results of the above studies, the minimum antenna size and associated power limitations of GSO and non-GSO FSS earth stations in the frequency band 13.75-14 GHz (Earth-to-space), possible changes to Nos. **5.502** and **5.503**, and consequential regulatory measures.	**WP 3M** **WP 5A** **WP 5B*** **WP 5C** **WP 7A** **WP 7B** **WP 7C**
***** Based on past experiences on the studies on this frequency band and the complexity of this issue, special attention should be paid to the interaction between WP 4A and WP 5B. Therefore WP 4A needs to take into account, as received, the potential update information and characteristics on the protection and operation of the radiolocation service as duly provided by WP 5B, in order to perform the relevant sharing studies. Based on progress on the studies in WP 4A, in case of necessity, joint meeting sessions of WP 4A and WP 5B should be organised to facilitate the collaboration between the WPs on the issue relative to the protection of the radiolocation service.			

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.3 to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution **COM6/3 (WRC-23)**;			
Resolution **COM6/3 (WRC-23)** Studies relating to the use of the frequency band 51.4-52.4 GHz to enable its use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space)	**WP 4A**	*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1 sharing and compatibility studies with existing services, including in adjacent bands, including protection of the fixed and mobile services, and studies relating to the suitability of revising conditions associated with the primary allocation to the FSS in the frequency band 51.4-52.4 GHz (Earth-to-space) to enable its use by gateway earth stations of non-GSO FSS systems (Earth-to-space), and the relevant regulatory studies; 2 compatibility studies between non-GSO FSS gateway operation in the frequency band 51.4-52.4 GHz and the existing primary passive services operating in the frequency band 52.6-54.25 GHz in order to review and revise Resolution **750 (Rev.WRC-19)** to protect the EESS (passive), considering the aggregated interference from GSO gateway earth stations and non-GSO FSS gateway earth stations and taking into account that the existing limits for GSO FSS networks to protect the EESS (passive) operating in the frequency band 52.6-54.25 GHz established in Resolution **750 (Rev.WRC-19)** continue to apply for those GSO FSS networks that were notified/brought into use before a date to be defined at WRC-27; 3 studies on sharing and compatibility between non-GSO FSS gateway operation in the frequency band 51.4-52.4 GHz and the radio astronomy observations carried out in the frequency band 51.4-54.25 GHz in conformity with No. **5.556**, in order to determine the conditions to ensure the protection of these observations; 4 studies regarding the protection of GSO FSS space stations from the emissions of non-GSO FSS gateway earth stations, including possible associated regulatory actions and possible inclusion of the frequency band 51.4-52.4 GHz in the scope of Resolutions **769 (WRC-19)** and **770 (Rev.WRC-23)**, … *invites the 2027 world radiocommunication conference* to consider, based on the results of the ITU-R studies, the possible revision of the conditions related to allocations to the FSS in the frequency band 51.4-52.4 GHz to enable its use by non-GSO FSS gateway earth stations on a primary basis and any other related regulatory provisions.	**WP 3M** **WP 5A** **WP 5C** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.4 to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution **COM6/24 (WRC-23)**;			
Resolution **COM6/24 (WRC-23)** Possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, and consideration of equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz	**WP 4A**	*resolves* that the studies referred to in *invites the ITU Radiocommunication Sector to conduct and complete in time for the 2027 world radiocommunication conference* below shall protect radiocommunication services to which the frequency band is allocated on a primary basis, including the fixed and mobile services, in particular assignments to the BSS feeder links contained in Appendix **30A**, *invites the ITU Radiocommunication Sector to conduct and complete in time for the 2027 world radiocommunication conference* 1 studies on sharing and compatibility between the FSS (space-to-Earth), the BSS (space-to-Earth) and the FSS (Earth-to-space) designated by No. **5.516** in order to consider a possible new primary allocation to the FSS (space-to-Earth) in the frequency band 17.3-17.7 GHz for Region 3 and to the BSS (space-to-Earth) in the frequency band 17.3-17.8 GHz for Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and without adversely affecting the existing allocations to the FSS (Earth-to-space) designated by No. **5.516**, including assignments to the BSS feeder links contained in Appendix **30A**; 2 consideration of the applicability of Region 2 non-GSO FSS epfd limits (see *noting e)*) pertaining to the frequency band 17.3-17.7 GHz to Regions 1 and 3, so as to ensure the protection of GSO networks, *invites the 2027 world radiocommunication conference* to consider the results of the above ITU Radiocommunication Sector (ITU-R) studies and take necessary actions, as appropriate, with respect to the following issues: 1) a possible new primary allocation to the FSS (space-to-Earth) in the frequency band 17.3-17.7 GHz for Region 3; 2) a possible new primary allocation to the BSS (space-to-Earth) in the frequency band 17.3-17.8 GHz for Region 3; 3) ensuring the protection of existing primary allocations in the same and adjacent frequency bands, without adversely affecting the existing allocations to the fixed and mobile services in the frequency band 17.7-17.8 GHz and to the FSS (Earth-to-space) as designated by No. **5.516**, including assignments to the BSS feeder links contained in Appendix **30A**; 4) the application of Region 2 epfd limits to non-GSO FSS systems (as given in *noting e)*) operating in the frequency band 17.3-17.7 GHz in Regions 1 and 3, …	**WP 3M** **WP 4B** **WP 5A** **WP 5B** **WP 5C** **WP 6B** **WP 7C**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.5 to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution **COM6/6 (WRC-23)**;			
Resolution **COM6/6 (WRC-23)** Studies on development of regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit (non-GSO) earth stations in the fixed-satellite service (FSS) and mobile-satellite service (MSS) and associated issues related to the service area of non-GSO FSS and MSS satellite systems	**WP 4A**	*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1 studies on regulatory measures to limit the unauthorized operations of non-GSO FSS and MSS earth stations in the Earth-to-space direction in order to address and cease such operations, taking into account technical and operational aspects, as appropriate; 2 studies on regulatory measures, taking into account *recognizing c)* with regard to non-GSO FSS and MSS satellite systems, and the implementability of such measures, without adversely affecting the provision of service in the rest of the service area of the non-GSO satellite system, … *resolves to invite the 2027 world radiocommunication conference* to consider the results of the studies under *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* above and take appropriate action.	**WP 1B** **WP 4C**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
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 **COM6/7 (WRC-23)**;			
Resolution **COM6/7 (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 1B** **WP 3M** **WP 4B** **WP 4C** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 6A** **WP 7B** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

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 **COM6/26 (WRC-23)**;			
Resolution **COM6/26 (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 1B** **WP 3K** **WP 3M** **WP 4A** **WP 4C** **WP 5A** **WP 5B** **WP 5C** **WP 7B** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.8 to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution **663 (Rev.WRC-23)**;			
Resolution **663 (Rev.WRC-23)** Studies on possible new additional allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz, and possible new identifications for radiolocation service applications in frequency bands within the frequency range 275-700 GHz	**WP 5B**	*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1 the description of the technical and operational characteristics, including required protection criteria, for those receive-only and active millimetric and sub-millimetric wave RLS systems and applications in the categories listed in *recognizing a)*; 2 studies on globally harmonized spectrum for the RLS, in particular for those millimetric and sub-millimetric wave RLS systems and applications above 231.5 GHz; 3 sharing and compatibility studies (in-band and adjacent bands) for active millimetric and sub-millimetric wave RLS systems and applications with other services in the frequency range 231.5-275 GHz, while ensuring protection for the current use and further development of the incumbent services allocated to this frequency range; 4 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with EESS (passive), space research service (passive) and RAS applications in the frequency range 275-700 GHz, while maintaining protection for the passive service applications identified in No. **5.565**; 5 sharing and compatibility studies (in-band and adjacent bands) for RLS applications with fixed service and land mobile service applications in the frequency range 275-450 GHz, as identified in No. **5.564A**, *invites the 2027 world radiocommunication conference* 1 to determine, based on the results of the ITU-R studies described in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference,* possible new allocations to the RLS in the frequency range 231.5-275 GHz on a primary basis, considering required regulatory measures, while taking into account and ensuring the protection of the current use and further development of existing services in the frequency bands considered and in adjacent frequency bands; 2 to determine, based on the results of the ITU-R studies described in *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference*, possible identifications of frequency bands in the frequency range 275-700 GHz for use by RLS applications, considering required regulatory measures, while ensuring the protection of the applications identified in Nos. **5.564A** and **5.565** in the frequency bands considered and, as appropriate, in adjacent frequency bands.	**WP 3J** **WP 3K** **WP 3M** **WP 4A** **WP 4C** **WP 5A** **WP 5C** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.9 to consider appropriate regulatory actions to update Appendix **26** to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution **COM6/2 (WRC-23)**;			
Resolution **COM6/2 (WRC-23)** Consideration of appropriate regulatory actions to update Appendix **26** in support of modernization of high-frequency spectrum use in the aeronautical mobile (OR) service	**WP 5B**	*recognizing* ... *c)* that for the purpose of this Resolution, the term "wideband" in HF communications may refer to a combination of emissions wider than 3 kHz channels; *d)* that wideband operation can be achieved by single- or multi-carrier emissions; *e)* that wideband operation may be achieved by contiguous or non-contiguous channel aggregation for multi-carrier emissions; *f)* that the use of existing frequency and area allotments in the frequency bands allocated to the aeronautical mobile (OR) service between 3 025 kHz and 18 030 kHz is governed by the provisions of Appendix **26**, *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1 studies on the introduction of new technologies that enhance performance, including, but not limited to, new classes of emission, wideband systems (see *recognizing c)*, *d)* and *e)*), etc., to the aeronautical mobile (OR) service systems in the frequency ranges considered in Appendix **26**; 2 in order to undertake *resolves to invite ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* 1, the definition of the relevant technical and operational characteristics and conduct sharing and compatibility studies with existing aeronautical mobile (OR) service systems and with other incumbent services that are allocated on a primary basis in the same or adjacent frequency bands; 3 based on ITU Radiocommunication Sector (ITU-R) studies, the identification of any potential modifications to Appendix **26**, without modifying the existing area allotments in *recognizing f)*, and while taking into account that the current use of the narrowband systems shall remain unchanged and shall not be impacted nor precluded by the revision of Appendix **26**, … *invites the 2027 world radiocommunication conference* to consider necessary changes, as appropriate, to Appendix **26**, on the basis of the studies conducted under *resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* above.	**WP 3L** **WP 5C** **WP 6A** **WP 7A**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.10 to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article **21** of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution **775 (Rev.WRC-23)**;			
Resolution **775 (Rev.WRC-23)** Power flux-density and equivalent isotropically radiated power limits for inclusion in Article **21** for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz	**WP 5C***	*resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference* the appropriate studies to determine power flux-density (pfd) and equivalent isotropically radiated power (e.i.r.p.) limits to be included in Article **21** for satellite services (fixed-satellite service (FSS), mobile-satellite service (MSS) and broadcasting-satellite service (BSS)) to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, … *invites the 2027 world radiocommunication conference* to consider, based on the results of studies, the inclusion of pfd and e.i.r.p. limits in Article **21** for the FSS, MSS and BSS to protect the current and planned fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz.	**WP 1A** **WP 3J** **WP 3M** **WP 4A*** **WP 4B** **WP 4C*** **WP 5A*** **WP 5B** **WP 6A** **WP 7C** **WP 7D**
* Studies should be carried out in close collaboration between the indicated WPs.			

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.11 to 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)	**WP 3L** **WP 3M** **WP 4A** **WP 4B** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 6A** **WP 7B** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		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 3 above, … *invites the 2027 world radiocommunication conference* to consider the results of the above studies and take necessary regulatory actions, as appropriate.	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
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 **COM6/8 (WRC-23)**;			
Resolution **COM6/8 (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**

Allocation of ITU-R preparatory work for WRC-27

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 **COM6/9 (WRC-23)**;			
Resolution **COM6/9 (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***	*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**
* 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 Chairmen of both WPs should coordinate the schedule of WPs meetings, as appropriate, and provide a note to both WPs in this regard.			

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.14 to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution **COM6/10 (WRC-23)**;			
Resolution **COM6/10 (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** **WP 4B** **WP 5A** **WP 5C** **WP 5D** **WP 7B** **WP 7C**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.15 to 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 **COM6/4 (WRC-23)**;			
Resolution **COM6/4 (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.479-5 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	**WP 1B** **WP 3J** **WP 4A** **WP 4C** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 7A** **WP 7C** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		– 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 to 5, 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* 1 above, 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* 1 and 2 above.	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
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 **COM6/11 (WRC-23)**;			
Resolution **COM6/11 (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*	**WP 1B** **WP 3J** **WP 3M** **WP 4A** **WP 4C** **WP 5A** **WP 5B** **WP 5D**

Allocation of ITU-R preparatory work for WRC-27

<table>
<tr><th>Topic</th><th>Responsible group</th><th>Action to be taken by the group</th><th>Contributing group</th></tr>
<tr><td></td><td></td><td>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
<table>
<tr><th>Radio astronomy frequency band</th><th>Active space service operating in adjacent or nearby frequency band</th><th>Active space service (space-to-Earth)</th><th>Scope</th></tr>
<tr><td>10.6-10.7 GHz</td><td>10.7-10.95 GHz</td><td>FSS</td><td>Resolves etc. 1 and 2</td></tr>
<tr><td>42.5-43.5 GHz</td><td>42-42.5 GHz</td><td>FSS</td><td>Resolves etc. 2</td></tr>
<tr><td>76-77.5 GHz</td><td>74-76 GHz</td><td>FSS, MSS</td><td>Resolves etc. 2</td></tr>
<tr><td>94.1-95 GHz</td><td>95-100 GHz</td><td>RNSS, MSS</td><td>Resolves etc. 2</td></tr>
<tr><td>100-102 GHz</td><td>95-100 GHz</td><td>RNSS, MSS</td><td>Resolves etc. 1 and 2</td></tr>
<tr><td>114.25-116 GHz</td><td>116-119.98 GHz</td><td>ISS</td><td>Resolves etc. 1 and 2</td></tr>
<tr><td>130-134 GHz</td><td>123-130 GHz</td><td>FSS, MSS, RNSS</td><td>Resolves etc. 2</td></tr>
</table></td><td></td></tr>
</table>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
1.17 to 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 **COM6/12 (WRC-23)**;			
Resolution **COM6/12 (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 **COM5/1 (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*	**WP 3L** **WP 3M** **WP 4A** **WP 4C** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 6A** **WP 7B** **WP 7D**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		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, …	

Allocation of ITU-R preparatory work for WRC-27

<table>
<tr><th>Topic</th><th>Responsible group</th><th>Action to be taken by the group</th><th>Contributing group</th></tr>
<tr><td colspan="4">1.18 to consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services, in accordance with Resolution COM6/5 (WRC-23);</td></tr>
<tr><td>Resolution COM6/5 (WRC-23)
Studies on compatibility between the Earth exploration-satellite service (passive), the radio astronomy service in certain bands above 76 GHz, and active services in adjacent and nearby frequency bands</td><td>WP 7C
(resolves 1)
WP 7D
(resolves 2)

(Note: the draft CPM text prepared by WP 7C and WP 7D will be provided by WP 7C)</td><td>resolves to invite the ITU Radiocommunication Sector to complete in time for the 2027 world radiocommunication conference
1 compatibility studies between the EESS (passive) and the corresponding active services in adjacent frequency bands as listed in Table 1 below:

TABLE 1
EESS (passive) frequency bands to be studied and corresponding active services to be included
<table>
<tr><th>EESS (passive) frequency band</th><th>Active service frequency band</th><th>Active service</th></tr>
<tr><td rowspan="2">86-92 GHz</td><td>81-86 GHz</td><td>Fixed-satellite service (FSS) (Earth-to-space), mobile service (MS)</td></tr>
<tr><td>92-94 GHz</td><td>MS, radiolocation service (RLS)</td></tr>
<tr><td>114.25-116 GHz</td><td>111.8-114.25 GHz</td><td>Fixed service (FS), MS</td></tr>
<tr><td rowspan="2">164-167 GHz</td><td>158.5-164 GHz</td><td>FS, FSS (space-to-Earth), MS, mobile-satellite service (MSS) (space-to-Earth)</td></tr>
<tr><td>167-174.5 GHz</td><td>FS, FSS (space-to-Earth), inter-satellite service (ISS), MS</td></tr>
<tr><td rowspan="2">200-209 GHz</td><td>191.8-200 GHz</td><td>FS, ISS, MS, MSS, radionavigation service (RNS), radionavigation-satellite service (RNSS)</td></tr>
<tr><td>209-217 GHz</td><td>FS, FSS (Earth-to-space), MS</td></tr>
</table>
2 compatibility studies between the RAS and the active satellite services in certain adjacent and nearby frequency bands listed in Table 2 below with a view to setting the relevant threshold levels for unwanted emissions from any GSO and non-GSO space stations and revising and updating Resolution 739 (Rev.WRC-19) accordingly:

TABLE 2
RAS frequency bands to be studied and corresponding active services to be included</td><td>WP 3J*
WP 3M*
WP 4A
WP 4C
WP 5A
WP 5B
WP 5C</td></tr>
</table>

Allocation of ITU-R preparatory work for WRC-27

<table>
<tr><th>Topic</th><th>Responsible group</th><th>Action to be taken by the group</th><th>Contributing group</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Radio astronomy frequency band</th><th>Active satellite service frequency band</th><th>Active satellite service (space-to-Earth)</th></tr>
<tr><td>76-81 GHz</td><td>71-76 GHz</td><td>Fixed-satellite service (FSS), mobile-satellite service (MSS), broadcasting-satellite service (BSS)</td></tr>
<tr><td>130-134 GHz</td><td>123-130 GHz</td><td>FSS, MSS, radionavigation-satellite service (RNSS)</td></tr>
<tr><td>164-167 GHz</td><td>167-174.5 GHz</td><td>FSS</td></tr>
<tr><td>226-231.5 GHz</td><td>232-235 GHz</td><td>FSS</td></tr>
</table>
…
invites the 2027 world radiocommunication conference
1 to determine, based on the results of studies, any required regulatory measures regarding the protection of the EESS (passive) in the frequency bands listed in Table 1 above from unwanted emissions of active services and update Resolution 750 (Rev.WRC-19) accordingly;
2 to determine, based on the results of studies, any required regulatory measures regarding the protection of the RAS in the frequency bands listed in Table 2 above and update Resolution 739 (Rev.WRC-19) accordingly,
instructs the Secretary-General
to bring this Resolution to the attention of the international and regional organizations concerned.
</td><td></td></tr>
<tr><td colspan="4">* Preparatory work in support of this agenda item will require efforts to extend the applicability of current radiowave propagation prediction methods for sharing and compatibility studies in frequency bands up to 235 GHz. Membership is encouraged to support these critical activities for completion by 2025 in Working Parties 3J and 3M.</td></tr>
</table>

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
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 **COM4/8 (WRC-23)**;			
Resolution **COM4/8 (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 3M** **WP 4A** **WP 5A** **WP 5B** **WP 5C** **WP 5D** **WP 7B**

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
2 to examine the revised ITU Radiocommunication Sector Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with the *further resolves* of Resolution **27 (Rev.WRC-19)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with the principles contained in the *resolves* of that Resolution;			
Resolution **27 (Rev.WRC-19)** Use of incorporation by reference in the Radio Regulations	**CPM27-2**	*resolves* 1 that, for the purposes of the Radio Regulations, the term "incorporation by reference" shall only apply to those references intended to be mandatory; 2 that the text incorporated by reference shall have the same treaty status as the Radio Regulations themselves; 3 that the reference shall be explicit, specifying the specific part of the text (if appropriate) and the version or issue number; 4 that, where a mandatory reference to an ITU-R Recommendation, or parts thereof, is included in the *resolves* of a WRC Resolution, which is itself cited in a provision or footnote of the Radio Regulations using mandatory language (i.e. "shall"), the ITU R Recommendation or parts thereof shall also be considered as incorporated by reference; 5 that texts which are of a non-mandatory nature or which refer to other texts of a non mandatory nature shall not be considered for incorporation by reference; 6 that, when considering the introduction of new cases of incorporation by reference, such incorporation shall be kept to a minimum and made by applying the following criteria: 6.1 only texts which are relevant to a specific WRC agenda item may be considered; 6.2 where the relevant texts are brief, the referenced material should be placed in the body of the Radio Regulations rather than using incorporation by reference; 6.3 the guidance contained in Annex 1 to this Resolution shall be applied in order to ensure that the correct method of reference for the intended purpose is employed; 7 that the text to be incorporated by reference shall be submitted for adoption by a competent WRC and the procedure described in Annex 2 to this Resolution shall be applied for approving the incorporation by reference of ITU-R Recommendations or parts thereof; 8 that existing references to ITU-R Recommendations shall be reviewed to clarify whether the reference is mandatory or non-mandatory in accordance with Annex 1 to this Resolution; 9 that ITU-R Recommendations, or parts thereof, incorporated by reference at the conclusion of each WRC, and a cross-reference list of the regulatory provisions, including footnotes and Resolutions, incorporating such ITU-R Recommendations by reference, shall be collated and published in a volume of the Radio Regulations (see Annex 2 to this Resolution); 10 that if, between WRCs, a text incorporated by reference (e.g. an ITU-R Recommendation) is updated, the reference in the Radio Regulations shall continue to apply to the earlier version incorporated by reference until such time as a competent WRC agrees to incorporate the new version; the mechanism for considering such a step is given in the *further resolves* part of this Resolution,	–

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		further resolves 1 that each RA shall communicate to the next WRC a list of the ITU-R Recommendations containing text incorporated by reference in the Radio Regulations which have been revised and approved during the elapsed study period; 2 that, on this basis, WRC is invited to examine those revised ITU-R Recommendations, and decide whether or not to update the corresponding references in the Radio Regulations; 3 that, if WRC decides not to update the corresponding references, the currently referenced version shall be maintained in the Radio Regulations; 4 to invite future WRCs to include a standing agenda item on examination of the revised ITU-R Recommendations in accordance with further *resolves* 1 and 2 of this Resolution, *instructs the Director of the Radiocommunication Bureau* 1 to bring this Resolution to the attention of RA and the radiocommunication study groups; 2 to identify the provisions and footnotes of the Radio Regulations containing references to ITU-R Recommendations and make suggestions on any further action to the second session of the Conference Preparatory Meeting (CPM) for its consideration and inclusion in the CPM Report; 3 to identify the provisions and footnotes of the Radio Regulations containing references to WRC Resolutions that contain references to ITU-R Recommendations, and make suggestions on any further action to the second session of CPM for its consideration and inclusion in the CPM Report; 4 to provide the second session of CPM with a list, for inclusion in the CPM Report, of those ITU-R Recommendations containing texts incorporated by reference that have been revised or approved since the previous WRC, or that may be revised in time for the next WRC, *invites administrations* 1 to submit proposals to future conferences, taking into account the CPM Report, in order to clarify the status of references, where ambiguities remain regarding the mandatory or non-mandatory status of the references in question, with a view to amending those references: i) that appear to be of a mandatory nature, identifying such references as being incorporated by reference by using clear linking language in accordance with Annex 1 to this Resolution; ii) that are of a non-mandatory character, so as to refer to “the most recent version” of the Recommendations; 2 to participate actively in the work of the radiocommunication study groups and the RA on revision of those Recommendations to which mandatory references are made in the Radio Regulations; 3 to examine any indicated revisions of ITU-R Recommendations containing text incorporated by reference and to prepare proposals on possible updating of relevant references in the Radio Regulations.	
3 to consider such consequential changes and amendments to the Radio Regulations as may be necessitated by the decisions of the conference;			

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
4 in accordance with Resolution **95 (Rev.WRC-19)**, to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;			
Resolution **95 (Rev.WRC-19)** General review of the Resolutions and Recommendations of world administrative radio conferences and world radiocommunication conferences	**CPM27-2**	*resolves* that recommended agendas for future WRCs should include a standing agenda item to review the Resolutions and Recommendations of previous conferences that are not related to any other agenda item of the conference with a view to: – abrogating those Resolutions and Recommendations that have served their purpose or have become no longer necessary; – reviewing the need for those Resolutions and Recommendations, or parts thereof, requesting ITU Radiocommunication Sector (ITU-R) studies on which no progress has been made during the last two periods between conferences; – updating and modifying Resolutions and Recommendations, or parts thereof, that have become out of date, and to correct obvious omissions, inconsistencies, ambiguities or editorial errors and effect any necessary alignment, *invites future competent world radiocommunication conferences* 1 to review the Resolutions and Recommendations of previous conferences that are related to the agenda items of the conference, other than the standing agenda item mentioned in resolves, under those specific agenda items, with a view to their possible revision, replacement or abrogation, and to take appropriate action; 2 at the beginning of the conference, to determine which committee within the conference has the primary responsibility to review each of the Resolutions and Recommendations of previous conferences, *instructs the Director of the Radiocommunication Bureau* 1 to conduct a general review of the Resolutions and Recommendations of previous conferences and, after consultation with the Radiocommunication Advisory Group and the Chairmen and Vice-Chairmen of the radiocommunication study groups, submit a report to the second session of the Conference Preparatory Meeting (CPM) in respect of *resolves* and *invites future competent world radiocommunication conferences* 1, including an indication of any associated agenda items; 2 to include in the above report, with the cooperation of the chairmen of the radiocommunication study groups, the progress reports of ITU-R studies on the issues which have been requested by the Resolutions and Recommendations of previous conferences, but which are not placed on the agendas of the forthcoming two conferences, *invites administrations* to submit contributions on the implementation of this Resolution to the second session of CPM and the conference, *invites the Conference Preparatory Meeting* to include, in its Report, the results of the general review of the Resolutions and Recommendations of previous conferences, based on the contributions by administrations to the second session of CPM and the above-mentioned Report of the Director, in order to facilitate the follow-up by the conference.	–

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
5 to review, and take appropriate action on, the Report from the Radiocommunication Assembly submitted in accordance with Nos. 135 and 136 of the ITU Convention;			
6 to identify those items requiring urgent action by the radiocommunication study groups in preparation for the next world radiocommunication conference;			

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
7 to consider possible changes, in response to Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference, on advance publication, coordination, notification and recording procedures for frequency assignments pertaining to satellite networks, in accordance with Resolution **86 (Rev.WRC-07)**, in order to facilitate the rational, efficient and economical use of radio frequencies and any associated orbits, including the geostationary-satellite orbit;			
Resolution **86 (WRC-07)** Implementation of Resolution 86 (Rev. Marrakesh, 2002) of the Plenipotentiary Conference	**WP 4A**	*resolves to invite future world radiocommunication conferences* 1 to consider any proposals which deal with deficiencies and improvements in the advance publication, coordination, notification and recording procedures of the Radio Regulations for frequency assignments pertaining to space services which have either been identified by the Board and included in the Rules of Procedure or which have been identified by administrations or by the Radiocommunication Bureau, as appropriate; 2 to ensure that these procedures, and the related appendices of the Radio Regulations reflect the latest technologies, as far as possible, *resolves to invite future world radiocommunication conferences* 1 to consider any proposals which deal with deficiencies and improvements in the advance publication, coordination, notification and recording procedures of the Radio Regulations for frequency assignments pertaining to space services which have either been identified by the Board and included in the Rules of Procedure or which have been identified by administrations or by the Radiocommunication Bureau, as appropriate; 2 to ensure that these procedures, and the related appendices of the Radio Regulations reflect the latest technologies, as far as possible, *invites administrations* to consider, in preparing for PP-10, appropriate action with regard to Resolution 86 (Rev. Marrakesh, 2002).	–

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
8 to consider and take appropriate action on requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, taking into account Resolution **26 (Rev.WRC-23)**;			
Resolution **26 (Rev.WRC-23)** Footnotes to the Table of Frequency Allocations in Article 5 of the Radio Regulations	**CPM27-2 for information only**	*resolves* 1 that, wherever possible, footnotes to the Table of Frequency Allocations should be confined to altering, limiting or otherwise changing the relevant allocations rather than dealing with the operation of stations, assignment of frequencies or other matters; 2 that the Table of Frequency Allocations should include only those footnotes which have international implications for the use of the radio-frequency spectrum; 3 that new footnotes to the Table of Frequency Allocations should only be adopted in order to: *a)* achieve flexibility in the Table of Frequency Allocations; *b)* protect the relevant allocations in the body of the Table and in other footnotes in accordance with Section II of Article **5**; *c)* introduce either transitional or permanent restrictions on a new service to achieve compatibility; or *d)* meet the specific requirements of a country or area when it is impracticable to satisfy such needs otherwise within the Table of Frequency Allocations; 4 that footnotes serving a common purpose should be in a common format, and, where possible, be grouped into a single footnote with appropriate references to the relevant frequency bands, *further resolves* 1 that any addition of a new footnote or modification of an existing footnote should be considered by a WRC only when: *a)* the agenda of that WRC explicitly includes the frequency band to which the proposed additional or modified footnote relates; or *b)* the frequency bands to which the desired additions or modifications of the footnote belong are considered during WRC and WRC decides to make a change in those frequency bands; or *c)* the addition or modification of footnotes is specifically included in the agenda of WRC as a result of the consideration of proposals submitted by one or more interested administration(s); 2 that recommended agendas for future WRCs should include a standing agenda item which would allow for the consideration of proposals by administrations for deletion of country footnotes, or country names in footnotes, if no longer required[1]; 3 that in cases not covered by *further resolves* 1 and 2, proposals for new footnotes or modification of existing footnotes could exceptionally be considered by a WRC if they concern corrections of obvious omissions,	–

[1] See also Annex 1 to this Resolution.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
		inconsistencies, ambiguities or editorial errors and have been submitted to ITU as stipulated in No. 40 of the General Rules of conferences, assemblies and meetings of the Union, *urges administrations* 1 to review footnotes periodically and to propose the deletion of their country footnotes or of their country names from footnotes, as appropriate; 2 to take account of *further resolves* above in making proposals to WRCs in relation to footnotes or country names in footnotes; 3 to submit their proposals to a WRC in the cases addressed by *further resolves* 1, under the relevant agenda items of the conference, as appropriate (see Section B of Annex 1 to this Resolution); 4 to submit their proposals under the WRC standing agenda item described in *further resolves* 2 to the second session of the corresponding conference preparatory meeting for information only, if available, to allow for discussion with affected administrations.	

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
9 to consider and approve the Report of the Director of the Radiocommunication Bureau, in accordance with Article 7 of the ITU Convention: 9.1 on the activities of the ITU Radiocommunication Sector since WRC-23[1];			
–	–	–	–
9.2 on any difficulties or inconsistencies encountered in the application of the Radio Regulations[2]; and			
–	–	–	–
9.3 on action in response to Resolution **80 (Rev.WRC-07)**;			
Resolution **80 (Rev.WRC-07)** Due diligence in applying the principles embodied in the Constitution	–	*resolves* 1 to instruct the Radiocommunication Sector, in accordance with No. 1 of Article 12 of the Constitution, to carry out studies on procedures for measurement and analysis of the application of the basic principles contained in Article 44 of the Constitution; 2 to instruct the RRB to consider and review possible draft recommendations and draft provisions linking the formal notification, coordination and registration procedures with the principles contained in Article 44 of the Constitution and No. **0.3** of the Preamble to the Radio Regulations, and to report to each future World Radiocommunication Conference with regard to this Resolution; 3 to instruct the Director of the Radiocommunication Bureau to submit to each future World Radiocommunication Conference a detailed progress report on the action taken on this Resolution,	**WP 4A**

[1] This WRC's standing agenda sub-item is strictly limited to the Report of the Director on ITU-R activities since the last WRC; and any topics outside 1.1-1.19 as listed above shall be strictly avoided, particularly those topics which require any changes/amendments to the Radio Regulations.

[2] This WRC's standing agenda sub-item is strictly limited to the Report of the Director on any difficulties or inconsistencies encountered in the application of the Radio Regulations and the comments from administrations. Administrations are invited to inform the Director of the Radiocommunication Bureau of any difficulties or inconsistencies encountered in the Radio Regulations.

Allocation of ITU-R preparatory work for WRC-27

Topic	Responsible group	Action to be taken by the group	Contributing group
10 to recommend to the ITU Council items for inclusion in the agenda for the next world radiocommunication conference, and items for the preliminary agenda of future conferences, in accordance with Article 7 of the ITU Convention and Resolution **804 (Rev.WRC-23)**,			
Resolution **804 (Rev.WRC-23)** Principles for establishing agendas for world radiocommunication conferences	**CPM27-2 for information only**	*resolves* 1 that recommended agendas for future WRCs shall include a standing agenda item for the establishment of preliminary agendas for subsequent WRCs; 2 that the course of action outlined in this Resolution needs to be taken into account in the preparation of and decision on the agenda of future WRCs; 3 that the principles in Annex 1 to this Resolution need to be taken into account when developing agendas for future WRCs; 4 that the guidance given in Annex 2 to this Resolution needs to be used in developing agenda items for future WRCs and their supporting resolutions; 5 to encourage administrations and regional telecommunication organizations to submit, to the extent practicable, information on possible items/topics for the agenda of future WRCs under the WRC standing agenda item mentioned in *resolves* 1 to the second session of CPM, *invites administrations* 1 to use the guidance in Annex 2 to this Resolution in developing agenda items for future WRCs and their supporting resolutions; 2 to use the template in Annex 3 to this Resolution in proposing agenda items for future WRCs, *further invites administrations* to participate in regional activities for the preparation of agendas for future WRCs, *invites the Radiocommunication Bureau* to review and provide feedback, to the extent possible, when consulted by administrations on the development of items for the agendas of future WRCs, seeking consistency with relevant provisions of the Radio Regulations and practices of the Bureau.	–

Agenda Items 1.n listed in order of item index (*=WP 7D contributing, **=WP 7D responsible)

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);

1.2 to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution COM6/1 (WRC-23);

1.3 *to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution COM6/3 (WRC-23);

1.4 to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution COM6/24 (WRC-23);

1.5 to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution COM6/6 (WRC-23);

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 COM6/7 (WRC-23);

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 primar services operating in these, and adjacent, frequency bands, in accordance with Resolution COM6/26 (WRC-23);

1.8 *to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution 663 (Rev.WRC-23);

1.9 to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution COM6/2 (WRC-23);

1.10 *to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution 775 (Rev.WRC-23);

1.11 *to 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);

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 COM6/8 (WRC-23);

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 COM6/9 (WRC-23);

1.14 to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution COM6/10 (WRC-23);

1.15 *to 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 COM6/4 (WRC-23);

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 COM6/11 (WRC-23);

1.17 *to 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 COM6/12 (WRC-23);

1.18 **to consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services, in accordance with Resolution COM6/5 (WRC-23);

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 COM4/8 (WRC-23);

Agenda Items 1.n listed in order of responsible Working Party:

WP 4A

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);

1.2 to consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes, in accordance with Resolution COM6/1 (WRC-23);

1.3 *to consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space), in accordance with Resolution COM6/3 (WRC-23);

1.4 to consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution COM6/24 (WRC-23);

1.5 to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution COM6/6 (WRC-23);

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 COM6/7 (WRC-23);

WP 4C

1.11 *to 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);

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 COM6/8 (WRC-23);

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 COM6/9 (WRC-23);

1.14 to consider possible additional allocations to the mobile-satellite service, in accordance with Resolution COM6/10 (WRC-23);

WP 5B

1.8 *to consider possible additional spectrum allocations to the radiolocation service on a primary basis in the frequency range 231.5-275 GHz and possible new identifications for radiolocation service applications in the frequency bands within the frequency range 275-700 GHz for millimetric and sub-millimetric wave imaging systems, in accordance with Resolution 663 (Rev.WRC-23);

1.9 to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution COM6/2 (WRC-23);

WP 5C

1.10 *to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution 775 (Rev.WRC-23);

WP 5D

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 primar services operating in these, and adjacent, frequency bands, in accordance with Resolution COM6/26 (WRC-23);

WP 7B

1.15 *to 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 COM6/4 (WRC-23);

WP 7C

1.17 *to 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 COM6/12 (WRC-23);

1.18 **to consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services, in accordance with Resolution COM6/5 (WRC-23);

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 COM4/8 (WRC-23);

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 COM6/11 (WRC-23);

1.18 **to consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services, in accordance with Resolution COM6/5 (WRC-23);

Order of work for WRC-related items during the upcoming cycle

- Two items for which WP 7D is responsible.
    - 1.16 Protection from satellite RFI above 10.7 GHz
    - 1.18 Rev. of Res. 739, protection of RAS from satellites in other bands
- Two items involving satellite direct-cell in adjacent bands
    - 1.12 MSS (s-E) 1 427 -1 432 MHz
    - 1.13 MSS (s-E) in IMT bands 694/698 – 2 700 MHz
- Items requiring study to prevent RFI to RAS from adjacent bands
    - 1.1 Protect CS J=1-0 from airborne ESIM operating in FSS bands
    - 1.7 Potential IMT identification at 14.8 – 15.35 GHz
    - 1.8 Allocation/identification for radiolocation 231.5 – 275/275 – 700 GHz
    - 1.10 Revision of Art. 21 limits for FSS, MSS, BSS 71 – 76 & 81 – 86 GHz
    - 1.11 Intersatellite links in MSS bands at/around OH 1 612, 1 665/1 667 MHz
- Items requiring attention and perhaps study
    - 1.15 Allocations to space operations service for lunar radiocommunications
    - 1.17 Protection of receive-only space weather sensors
    - 1.6 “Equitable access” for FSS operations at ~37 – 50 GHz