**Cross-reference list of the regulatory provisions, including footnotes and Resolutions, incorporating ITU-R Recommendations by reference**

| Recommendation ITU-R | Title of the Recommendation | RR provisions and footnotes with ITU-R Recommendations contained in RR Volume 4 |
| --- | --- | --- |
| **TF.460-6** | Standard-frequency and time-signal emissions | No. **1.14** (via Resolution **655 (Rev.WRC-23)**) |
| **M.489-2** | Technical characteristics of VHF radiotelephone equipment operating in the maritime mobile service in channels spaced by 25 kHz | Nos. **51.77**, **52.231**, Appendix **18** (*General notes e)*) |
| **M.492-6** | Operational procedures for the use of direct-printing telegraph equipment in the maritime mobile service | No. **56.2** |
| **P.525-4** | Calculation of free-space attenuation | No. **5.444B** (via Resolution **748 (Rev.WRC-19)**) |
| **P.526-15** | Propagation by diffraction | No. **5.444B** (via Resolution **748 (Rev.WRC-19)**) |
| **M.541-11** | Operational procedures for the use of digital selective-calling equipment in the maritime mobile service | Nos. **51.35**, **52.112**, **52.149**, **52.153**, **54.2** |
| **M.585-9** (Annex 1) | Assignment and use of identities in the maritime mobile service | Nos. **19.99**, **19.102**, **19.111** |
| **M.633-5** | Transmission characteristics of a satellite emergency position-indicating radio beacon (satellite EPIRB) operating through a satellite system in the 406.0-406.1 MHz band | No. **34.1** |
| **S.672-4** | Satellite antenna radiation pattern for use as a design objective in the fixed-satellite service employing geostationary satellites | TABLE **22-2** (and No. **22.5D.3**), TABLE **22-3** (and No. **22.5F.3**) |
| **M.690-3** | Technical characteristics of emergency position-indicating radio beacons operating on the carrier frequencies of 121.5 MHz and 243 MHz | Appendix**15** (Table 15-2) |
| **RA.769-2** (parts related to the application of Nos. **5.372**, 5.511G, 5.511H, 5.531C, 5.531E and **5.510A**) | Protection criteria used for radio astronomical measurements | Nos. **5.372**, 5.511G, 5.511H, 5.531C, 5.531E and No. **5.510A** (via Resolution **678 (WRC‑23)**) |
| **P.838-3** | Specific attenuation model for rain for use in prediction methods | Appendix **30A** (Annex 3 § 2.2 Step 6) |
| **M.1084-5** | Interim solutions for improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service | Appendix**18** (NOTE B) (prior to the table) |
| **SM.1138-3** | Determination of necessary bandwidths including examples for their calculation and associated examples for the designation of emissions | Appendix **1** (§ 1 and § 2) |
| **SA.1154-0** | Provisions to protect the space research (SR), space operations (SO) and Earth-exploration satellite services (EES) and to facilitate sharing with the mobile service in the 2 025-2 110 MHz and 2 200-2 290 MHz bands | No. **5.391** |
| **M.1171-1** | Radiotelephony procedures for routine calls in the maritime mobile service | Nos. **52.192**, **52.195**, **52.213**, **52.224**, **52.234**, **52.240**, **57.1** |
| **M.1172-0** | Miscellaneous abbreviations and signals to be used for radiocommunications in the maritime mobile service | No. **19.48** |
| **M.1173-1** | Technical characteristics of single-sideband transmitters used in the maritime mobile service for radiotelephony in the bands between 1 606.5 kHz (1 605 kHz Region 2) and 4 000 kHz and between 4 000 kHz and 27 500 kHz | Nos. **52.181**, **52.229**, Appendix **17** (Part B, Section I § 2 and § 6) |
| **M.1174-4** | Technical characteristics of equipment used for on-board vessel communications in the bands between 450 and 470 MHz | Nos. **5.287**, **5.288** |
| **M.1187-1** | A method for the calculation of the potentially affected region for a mobile-satellite service network in the 1‑3 GHz range using circular orbits | Appendix **4** (Annex 2 item C.11.b) |
| **S.1256-0** | Methodology for determining the maximum aggregate power flux-density at the geostationary-satellite orbit in the band 6 700-7 075 MHz from feeder links of non-geostationary satellite systems in the mobile-satellite service in the space‑to‑Earth direction | No. **22.5A** |
| **RS.1260-2** | Feasibility of sharing between active spaceborne sensors and other services in the range 420-470 MHz | No. **5.279A** |
| **BO.1293-2** | Protection masks and associated calculation methods for interference into broadcast-satellite systems involving digital emissions | Appendix **30A** (Annex 3 § 3.3), Appendix **30** (Annex 5 § 3.4) |
| **S.1340-0** | Sharing between feeder links for the mobile-satellite service and the aeronautical radionavigation service in the Earth-to-space direction in the band 15.4-15.7 GHz | No. **5.511C** |
| **S.1428-1** | Reference FSS earth-station radiation patterns for use in interference assessment involving non-GSO satellites in frequency bands between 10.7 GHz and 30 GHz | TABLE **22-1A**, TABLE **22-1B**, TABLE **22-1C** (and No. **22.5C.6**) |
| **BO.1443-3** | Reference BSS earth station antenna patterns for use in interference assessment involving non-GSO satellites in frequency bands covered by RR Appendix 30 | TABLE **22-1D** (and Nos. **22.5C.11** and 22.5C.13) |
| **RA.1513-2** | Levels of data loss to radio astronomy observations and percentage-of-time criteria resulting from degradation by interference for frequency bands allocated to the radio astronomy service on a primary basis | Nos. **5.372**,5.511G, 5.511H, 5.531C, 5.531E and No. **5.510A** (via Resolution **678 (WRC‑23)**) |
| **M.1583-1** | Interference calculations between non-geostationary mobile-satellite service or radionavigation-satellite service systems and radio astronomy telescope sites | No. **5.372**, No. **5.443B** (via Resolution **741 (Rev.WRC-15)**), Appendix **4** Annex 2 (item A.17.b.3) (via Resolution **741 (Rev.WRC-15)**) |
| **S.1586-1** | Calculation of unwanted emission levels produced by a non‑geostationary fixed-satellite service system at radio astronomy sites | No. **5.551H** |
| **F.1613-0** | Operational and deployment requirements for fixed wireless access systems in the fixed service in Region 3 to ensure the protection of systems in the Earth exploration-satellite service (active) and the space research service (active) in the band 5 250‑5 350 MHz | No. **5.447E** |
| **RA.1631-0** | Reference radio astronomy antenna pattern to be used for compatibility analyses between non-GSO systems and radio astronomy service stations based on the epfd concept | No. **5.208B** (via Resolution **739 (Rev.WRC‑19)**, No. **5.372**, No. **5.443B** (via Resolution **741 (Rev.WRC-15)**), No. **5.551H**, Appendix **4** Annex 2 (item A.17.b.3) (via Resolution **741 (Rev.WRC-15)**) |
| **M.1642-2** | Methodology for assessing the maximum aggregate equivalent power flux-density at an aeronautical radionavigation service station from all radionavigation-satellite service systems operating in the 1 164-1 215 MHz band | Nos. **5.328A** (via Resolution **609 (Rev. WRC‑07)**) |
| **M.1643-0** | Technical and operational requirements for aircraft earth stations of aeronautical mobile-satellite service including those using fixed-satellite service network transponders in the band 14-14.5 GHz (Earth-to-space) | No. **5.504B** (refers to Annex 1, Part C of Rec. ITU-R M.1643-0), Nos. **5.504C**, **5.508A** and **5.509A** (refer to Annex 1, Part B of Rec. ITU-R M.1643-0) |
| **M.1652-1** (Annex 1 and Annex 5) | Dynamic frequency selection in wireless access systems including radio local area networks for the purpose of protecting the radiodetermination service in the 5 GHz band | Nos. **5.446A**, **5.447F**, **5.450A** (via Resolution **229 (Rev.WRC‑23)**) |
| **M.1827-1** | Guideline on technical and operational requirements for stations of the aeronautical mobile (R) service limited to surface application at airports in the frequency band 5 091-5 150 MHz | No. **5.444B** (via Resolution **748 (Rev.WRC-19)**) |
| **M.2013-0** | Technical characteristics of, and protection criteria for non-ICAO aeronautical radionavigation systems, operating around 1 GHz | No. **5.327A** (via Resolution **417 (Rev.WRC-15)**) |
| **RS.2065-0** | Protection of space research service (SRS) space-to-Earth links in the 8 400-8 450 MHz and 8 450‑8 500 MHz bands from unwanted emissions of synthetic aperture radars operating in the Earth exploration-satellite service (active) around 9 600 MHz | No. **5.474C** |
| **RS.2066-0** | Protection of the radio astronomy service in the frequency band 10.6-10.7 GHz from unwanted emissions of synthetic aperture radars operating in the Earth exploration-satellite service (active) around 9 600 MHz | No. **5.474B** |
| **S.2157-0** | Procedures for the evaluation of interference from any non-geostationary-satellite system into a global set of the generic geostationary-satellite reference links in the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) | Nos. **5.550C**, **22.5L.1** (via Resolution **770 (Rev.WRC‑23)**) |